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Demonstrated Reserve Base of U. S. Coals With Potential for Use in the Manufacture of Metallurgical Coke

By William S. Sanner and David C. Benson

UNITED STATES DEPARTMENT OF THE INTERIOR

Public Law 95-91, Department of Energy Organization Act, transferred all data collection, analysis, and dissemination activities related to fossil fuels from the Bureau of Mines to the Department of Energy. The Bureau of Mines has retained an interest in coke, which is a metallurgical reducing agent not a fuel per se, and this report has been published by the Bureau of Mines to complete a series of reports on coal reserves that was undertaken prior to the transfer of this function to the Department of Energy. Readers seeking more information on coke or having questions regarding the contents of this report should contact Francis E. Brantley, Chief, Division of Ferrous Metals, U.S. Bureau of Mines, Columbia Plaza, 2401 E Street, NW., Washington, D.C. 20241 (202-634-1010).

United States. Bureau of Mines.

Information Circular, 8805

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UNITED STATES DEPARTMENT OF THE INTERIOR
Cecil D. Andrus, Secretary

BUREAU OF MINES
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As the Nation's principal conservation agency, the Department of the Interior has responsibility for most of our nationally owned public lands and natural resources. This includes fostering the wisest use of our land and water resources, protecting our fish and wildlife, preserving the environmental and cultural values of our national parks and historical places, and providing for the enjoyment of life through outdoor recreation. The Department assesses our energy and mineral resources and works to assure that their development is in the best interests of all our people. The Department also has a major responsibility for American Indian reservation communities and for people who live in Island Territories under U.S. administration.

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PREFACE

This report identifies and quantifies, on the basis of available data, those coals of the U.S. demonstrated coal reserve base that have potential for use in the manufacture of metallurgical coke. Only bituminous coals have been included because only this rank of coal has agglomerating properties.

Coals have been characterized as low-volatile, medium-volatile, and high-volatile A, B, and C bituminous according to American Society for Testing and Materials standard D338. In general, almost all bituminous coals are agglomerating, but the degree to which they will agglomerate declines from the low-volatile, which is strongly agglomerating, to the high-volatile C, which usually is weakly agglomerating. The degree of agglomeration can be determined by a number of empirical tests of which the most prominent is the free-swelling index or crucible-swelling test. Agglomerating test data, however, were not available for many of the bituminous coals known to have agglomerating properties. Therefore, in this report, all bituminous coals were assumed to be agglomerating and suitable for use in varying proportions in coking coal blends.

The characterization as premium, marginal, and latent grades was made entirely on the basis of available analytical data on ash and sulfur in raw coal samples. It is recognized that other impurities in coal will affect coke quality, but, again, existing analytical data were not sufficient to consider such impurities in this evaluation.

Despite these limitations, this report may be found useful in that it identifies coalbeds in the United States with a potential for use in coke manufacture and indicates the relative quality of each bed in each county and State.

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DEMONSTRATED RESERVE BASE OF U.S. COALS WITH POTENTIAL FOR USE IN THE MANUFACTURE OF METALLURGICAL COKE

by

William S. Sanner[1] and David C. Benson[2]

ABSTRACT

A demonstrated reserve base (DRB) of bituminous coal suitable for cokemaking has been estimated based on the latest published information on U.S. coal reserves. Bureau of Mines analyses of raw coalbed samples were used to classify the coals as low-, medium-, and high-volatile bituminous and grade them as premium, marginal, and latent coking coals. Coal rank was used as the basis for identifying coking coals, and ash and sulfur content were used to determine coking coal grade.

The demonstrated reserve base of coking coal for the entire United States is 162.67 billion tons. However, only 18.96 billion tons are premium (metallurgical) grade, and between 80 and 99 percent occurs in the Eastern States.

The demonstrated reserve base of marginal-grade coking coal is 31.3 billion tons; more than half the marginal reserve base is in the Eastern States, and most of the medium- and low-volatile marginal coals are in the Eastern States.

The Eastern and Midwestern States contain most of the latent-grade DRB of 112.4 billion tons; most (106.6 billion tons) is high-volatile coal, and 98 percent of the medium- and low-volatile latent coals occur in the Eastern States.

Based on the worst assumption, which assumes that only premium-grade coals are used for cokemaking, the DRB for high-volatile coal would suffice for 127 years, the medium-volatile coal for 80 years, and the low-volatile coal for 83 years.

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INTRODUCTION

Coal resources in the United States are vast, with deposits occurring in 10 Eastern, 7 Midwestern, and 10 Western States. The U.S. Geological Survey has identified a resource of 1,731 billion tons at depths to 3,000 feet (2).[3] Identified resources are the sum of measured, indicated, and inferred coal deposits and include beds 14 inches or more thick to an overburden depth of 3,000 feet (2). These identified resources include anthracite, bituminous coal, subbituminous coal, and lignite and are not all extractable. The Federal Bureau of Mines has evaluated the measured and indicated resources and estimated the quantity of inplace coals in relatively thick beds near enough to the surface to be mined by conventional surface or underground methods. This estimate is the demonstrated reserve base (DRB).

Criteria for the coal DRB have been defined jointly by the Bureau of Mines and the U.S. Geological Survey (5, 9, 12) and include beds 28 inches or more thick for bituminous coal and anthracite, and 60 inches or more thick for subbituminous coal and lignite. Maximum depth for all except lignite is 1,000 feet; only lignite beds that can be surface (strip) mined to approximately 120-foot depths are included.

Table 1 lists the U.S. DRB for coals of all ranks. The Eastern United States (east of the Mississippi River) has a DRB of 202.9 billion tons; 96 percent is bituminous coal, 3.5 percent is anthracite, and 0.5 percent is lignite. In the Western States (west of the Mississippi River), the DRB is 235.4 billion tons, but only 14.6 percent of the coal is bituminous; 71.5 percent is subbituminous, 13.8 percent is lignite, and less than 0.5 percent is anthracite (10).

TABLE 1. - Demonstrated reserve base (DRB) of U.S. coals, January 1, 1976 (10)

Type of coal	Million tons	Percent	
		Regional	Total United States
EASTERN UNITED STATES DRB			
Bituminous	194,595.9	95.9	44.4
Lignite	1,083.0	.5	.2
Anthracite	7,246.9	3.6	1.7
Total	202,925.8	100.0	46.3
WESTERN UNITED STATES DRB			
Bituminous	34,328.7	14.6	7.8
Subbituminous	168,425.0	71.5	38.4
Lignite	32,533.6	13.8	7.4
Anthracite	124.2	.1	.1
Total	235,411.5	100.0	53.7
COMBINED UNITED STATES DRB			
Bituminous	228,924.6	NAp	52.2
Subbituminous	168,425.0	NAp	38.4
Lignite	33,616.6	NAp	7.7
Anthracite	7,371.1	NAp	1.7
Grand total	438,337.3	NAp	100.0

NAp Not applicable.

[3]Underlined numbers in parentheses refer to items in the list of references preceding the appendixes.

This report deals with the more than half of the U.S. DRB that is bituminous coal. Only such coals have agglomerating properties and are considered "coking coals" because when heated in the absence of air at high temperatures, they soften, swell, or contract followed by solidification into a cellular mass called coke. Coke has been and still is the priority fuel used in blast furnaces to smelt iron ore.

Not all coking coals are suitable for use in the metallurgical industries, because in addition to being strong (physically) the coke produced must be low in ash and sulfur content. Because only a small portion of the bituminous coal DRB is suitable for ironmaking, this report was prepared to delineate the quantity and quality of the bituminous DRB that can be used in the metallurgical industries now or that may have potential use as metallurgical fuel.

The estimates arrived at are based on the latest published information on U.S. coal reserves and computer analysis of thousands of coal samples analyzed by the Bureau of Mines over more than 50 years.

COKING COALS

Coal in the United States is classified by rank according to standards established by the American Society for Testing and Materials (ASTM) (1). All coals are ranked in four major groups--anthracite, bituminous, subbituminous, and lignite. Anthracite and bituminous, the higher ranked coals, are classified according to the amount of fixed carbon, dry mineral-matter-free basis, and some bituminous coals are classified according to calorific value. Subbituminous coal and lignite are classified according to calorific value. Bituminous coals are classified further as low-, medium-, and high-volatile. Details of the ASTM parameters used in classifying coal are shown in table 2.

Only the bituminous coals have agglomerating properties and are considered "coking coals" because when heated at high temperature (750° to 900° C) in the absence of air, they will soften, become plastic, expand or contract, and solidify into a coherent, cellular mass called coke which is mainly fixed carbon. It is recognized that some coals in the bituminous grouping will not coke, but those can be readily identified by standard analytical tests such as the free-swelling index and the agglomerating index (11).

The mechanism by which certain coals soften, swell, and solidify into coke has been studied by many investigators. Lowry (6) cites more than 200 studies and concludes that both the mechanism and coal properties that cause coal to coke or "cake" are still imperfectly known. However, only bituminous coals have such properties, and some have coking properties to a greater degree than others. The Bureau of Mines has studied the coking characteristics of many U.S. bituminous coals (8, 13-14), and although the expanding properties of bituminous coals cannot be predicted with any accuracy from chemical analysis, there is a rough relationship between expansion during carbonization and coal rank. In general, when carbonized, high-volatile coals contract and low-volatile coals expand (3).

TABLE 2. - Classification of coals by rank[1]

Group	Fixed carbon limits percent (dry, mineral-matter-free basis)		Volatile matter limits, percent (dry, mineral-matter-free basis)		Calorific value limits, Btu per pound (moist, mineral-matter-free basis)[2]		Agglomerating character
	Equal to or greater than--	Less than--	Greater than--	Equal to or less than--	Equal to or greater than--	Less than--	
ANTHRACITE							
Metaanthracite.....	98	NAp	NAp	2	NAp	NAp	Nonagglomerating
Anthracite.....	92	98	2	8	NAp	NAp	Do.
Semianthracite[3].....	86	92	8	14	NAp	NAp	Do.
BITUMINOUS							
Low-volatile bituminous...	78	86	14	22	NAp	NAp	Commonly agglomerating.[4]
Medium-volatile bituminous	69	78	22	31	NAp	NAp	Do.
High-volatile A bituminous	NAp	69	31	NAp	[5]14,000	NAp	Do.
High-volatile B bituminous	NAp	NAp	NAp	NAp	[5]13,000	14,000	Do.
High-volatile C bituminous	NAp	NAp	NAp	NAp	11,500	13,000	Do.
					10,500	11,500	Agglomerating.
SUBBITUMINOUS							
Subbituminous A.....	NAp	NAp	NAp	NAp	10,500	11,500	Nonagglomerating
Subbituminous B.....	NAp	NAp	NAp	NAp	9,500	10,500	Do.
Subbituminous C.....	NAp	NAp	NAp	NAp	8,300	9,500	Do.
LIGNITE							
Lignite A.....	NAp	NAp	NAp	NAp	6,300	8,300	Nonagglomerating
Lignite B.....	NAp	NAp	NAp	NAp	NAp	6,300	Do.

NAp Not applicable.

[1]This classification does not include a few coals, principally nonbanded varieties, that have unusual physical and chemical properties and that come within the limits of fixed carbon or calorific value of the high-volatile bituminous and subbituminous ranks. All of these coals either contain less than 48 percent, dry, mineral-matter-free fixed carbon or have more than 15,500 moist, mineral-matter-free British thermal units per pound.

[2]Moist refers to coal containing its natural inherent moisture but not including visible water on the surface of the coal.

[3]If agglomerating, semianthracite is classified in low-volatile group of the bituminous class.

[4]It is recognized that there may be nonagglomerating varieties in these groups of the bituminous class, and there are notable exceptions in the high-volatile C bituminous group.

[5]Coals having 69 percent or more fixed carbon on the dry, mineral-matter-free basis are classified according to fixed carbon, regardless of calorific value.

Source: ASTM Annual Book of Standards, 1976 (1).

In ironmaking coke serves two basic purposes: (1) To supply the carbon to produce heat and reducing gases that smelt and reduce the ore to iron and (2), to support the heavy burden of ore, limestone, and other fluxing materials as it moves down the furnace shaft. The coke, therefore, in addition to being low in ash and sulfur content, must be physically strong to resist abrasion, impact, and degradation as it moves to the melting zone of the blast furnace.

Coals for metallurgical coke must be low in ash and sulfur, since in the cokemaking process (carbonization), all of the ash and much of the sulfur are retained by the coke. Coke produced by and for the iron and steel industry generally contains less than 8.0 percent ash and less than 1.0 percent sulfur. Both ash and sulfur must be removed in the ironmaking process, and excesses of either add to costs because additional flux must be added to furnace burdens. That increases the volume of slag (waste), decreases iron production, and with respect to sulfur, decreases iron quality.

In modern byproduct-recovery coke ovens, coal is charged to a battery of as many as 100 slot-type ovens 20 feet high by 50 feet long by 18 inches wide (7). The ovens are charged with approximately 33 tons of coal, which becomes coke after it remains in the oven operating at temperatures brought to 1,800° to 2,000° F over an 18-hour period. The hot coke is mechanically pushed from the oven, quenched (cooled), and moved to blast furnaces or to storage. The entire battery of ovens is charged and discharged at regular intervals so that a continuous supply of finished coke is produced.

There is no specification or standard for coking coals because the coal used in byproduct coke ovens is usually a blend of two or more bituminous coals. High-volatile bituminous coals contract when carbonized and produce the weakest (physical strength) cokes. When high-volatile coals are blended with relatively small amounts of low-volatile bituminous coals, which expand when carbonized, a strong, uniform coke suitable for blast furnace use is produced. Years of testing and experimentation have shown blending combinations to be almost unlimited. Many coals considered to be inferior for cokemaking are now blended in small amounts with prime coking coals without deleterious effects on the coke physical strength.

SELECTION CRITERIA FOR COKING COAL DEMONSTRATED RESERVE BASE

The base unit used to assess the coking coal reserve base was a computer tape produced by the Bureau of Mines fuels data bank, which contains proximate and ultimate analyses for 260,000 coal samples analyzed over a period of approximately 60 years. A computer program was prepared that averaged the analyses for each State, by county and bed. After averaging, the program ranked the coals according to ASTM specifications, first as anthracite, bituminous, subbituminous, and lignite, and second as low-, medium-, and high-volatile bituminous. The bituminous coals were split into premium, marginal, and latent grades based on ash and sulfur content of the raw coals. Premium-grade coking coal contains 8.0 percent or less ash and 1.0 percent or less sulfur, marginal-grade coking coal contains 8.1 to 12.0 percent ash and 1.1 to 1.8 percent sulfur, and latent-grade coking coal contains 12.1 to 16.0 percent ash and 1.9 and higher percent sulfur. Those limits were selected following discussions with major coke producers.

High-volatile C coals were included in the assessment, although many such coals have only moderate coking properties and are generally considered unsuitable for coke production.

The average analyses of the coals for each State are shown by county and coalbed in appendix A. Analyses are shown for both raw and washed coal in many instances.

ASH AND SULFUR REDUCTION POTENTIAL

Because only raw coal samples from those beds with analyses were considered, the DRB is at best conservative; a study of the data in appendix A will show that washing can change some latent-grade coals to marginal-grade and some marginal-grade coals to premium-grade.

All coals contain ash and sulfur, but the amount of each varies, not only among individual coals but even in coal from the same bed. These impurities can occur as separate mineral compounds or as chemical combinations. Minerals can include those in clays, shales, slate, and iron pyrites. The ash contains oxides of silica, alumina, calcium, and magnesium. Generally, the impurities are heavier than coal and can be removed by coal-cleaning devices on the basis of their difference in density. Ash can be reduced substantially by using a variety of coal-washing devices, but not all coals are cleanable, and of those that are, some respond to cleaning less readily than others.

Sulfur in coal occurs in two primary forms--iron pyrite and organic sulfur. As total sulfur increases, the pyritic form increases and tends to predominate. Organic sulfur is combined with other compounds as part of coal's molecular structure and is not removed by coal preparation. Only a part of the pyrite can be removed by present-day coal washing methods, and the amount that can be removed depends on particle size as well as physical and economic limitations of the cleaning devices. Pyrite can be partially removed by grinding followed by specific gravity separations in jigs, concentrating tables, and dense-media washers.

Washability studies by the Bureau of Mines on 455 coalbed samples throughout the United States (4) have shown that crushing the coal to pass 1-1/2 inches followed by specific gravity separation reduces ash content and has a marked effect on the removal of pyritic sulfur.

The Bureau of Mines studies of Pennsylvania coals, for example, showed that the ash content of the Pittsburgh coalbed in Greene County is reduced substantially when the coal is washed at 1.60 specific gravity after crushing to 1-1/2 inch and smaller in size. The pyritic sulfur content can be reduced from 2.3 percent in the raw coal to 1.0 percent in the washed coal. The organic sulfur is not removed by cleaning, and the total sulfur remains at 2.2 percent compared with 3.4 percent in the raw coal.

The Upper Freeport bed, relatively high in ash content (17.4 percent) in most Pennsylvania counties where it occurs, can be reduced to 7.6 percent ash when washed at 1.60 specific gravity after crushing to 1-1/2 inch and smaller

in size. Total sulfur in the bed can be reduced as much as 72 percent because it occurs principally as pyrite. Coal from this bed is an excellent example of a high-sulfur coal that can be upgraded by grinding and proper preparation techniques.

In Wise County, Va., a source of premium-grade low-volatile coals, the Imboden coalbed (4) contains 1.2 percent sulfur, making it marginal grade. Washing at 1.60 specific gravity recovers 86 percent of the coal with a total sulfur content of 0.90 percent and upgrades the coal to premium coking quality.

In Preston County, W. Va., coal from the Upper Freeport bed is 21 percent ash and 2.7 percent sulfur (4). Crushing the coal to 1-1/2 inches and smaller followed by washing at 1.90 specific gravity will recover 85 percent of the coal at 10.7 percent ash and 1.80 percent sulfur, upgrading the coal to marginal quality. The Middle Kittanning coalbed, Barbour County, W. Va., contains 16.6 percent ash and 2.1 percent sulfur and is latent grade. Crushing to 3/8 inch and smaller followed by specific gravity separations at 1.60 will produce marginal-grade coal--85 percent recovery at 8.6 percent ash and 0.97 per-cent sulfur.

The No. 6 coalbed, Douglas County, Ill., latent grade in the raw state, can generally be upgraded to marginal quality (from 2.73 to 1.75 percent sulfur by washing (4) at 1.60 specific gravity.

The coalbeds cited are just a few examples of the possibility of upgrading many bituminous coals by selective coal preparation practices. As coal washing technology is advanced, it will be possible to use increasing amounts of the demonstrated reserve base of higher sulfur and ash content coals for coke manufacture.

DEMONSTRATED RESERVE BASE OF COKING COALS

The DRB for coking coal in the United States is summarized by States in tables 3, 4, and 5. The data are for the Eastern (Appalachian), Midwestern, and Western States. The coals are ranked as high, medium, and low volatile and categorized as premium, marginal, and latent coals based on ash and sulfur content. Table 6 shows the total U.S. coking coal DRB by regions. Appendix B lists DRB by State, county, rank, and grade.

In the United States as a whole there is an estimated demonstrated reserve base aggregating 162.7 billion tons of coking coal of all ranks and grades, but only 18.9 billion tons are categorized as premium (metallurgical) grade. Of the 18.9 billion tons, only 4.6 billion are medium- and low-volatile coals which are most necessary for selective blending with high-volatile coal to produce strong metallurgical coke. Premium-grade coking coals are concentrated in the Eastern States, with 84.7 percent occurring in six States. West Virginia and Kentucky contain 67.4 percent of all U.S. high-volatile premium-grade coking coal. West Virginia contains 78 percent (1.37 billion tons) of all medium-volatile premium-grade U.S. coking coals, and 99 percent of all low-volatile premium-grade U.S. coking coals.

TABLE 3. - Coking coal demonstrated reserve base, Eastern (Appalachian) Region

(Million tons)

State and volatile matter[1]	Premium	Marginal	Latent	Total
Alabama:				
High	236.81	462.24	853.39	1,552.44
Medium	1.00	473.86	71.82	546.68
Low	-	-	-	-
Total	237.81	936.10	925.21	2,099.12
Kentucky, East:				
High	4,363.19	3,047.68	589.24	8,000.11
Medium	-	-	-	-
Low	-	-	-	-
Total	4,363.19	3,047.68	589.24	8,000.11
Kentucky, West:				
High	-	-	7,459.79	7,459.79
Medium	-	-	-	-
Low	-	-	-	-
Total	-	-	7,459.79	7,459.79
Maryland:				
High	-	-	-	-
Medium	-	-	-	-
Low	.49	359.74	557.93	918.16
Total	.49	359.74	557.93	918.16
Ohio:				
High	-	1,009.89	16,742.89	17,752.78
Medium	-	-	-	-
Low	-	-	-	-
Total	-	1,009.89	16,742.89	17,752.78
Pennsylvania:				
High	436.74	1,123.94	13,416.67	14,977.35
Medium	-	1,208.14	2,943.44	4,151.58
Low	-	781.48	1,315.77	2,097.25
Total	436.74	3,113.56	17,675.88	21,226.18
Tennessee:				
High	165.22	274.33	406.70	846.25
Medium	-	-	-	-
Low	-	-	-	-
Total	165.22	274.33	406.70	846.25
Virginia:				
High	980.25	594.37	416.22	1,990.84
Medium	375.36	434.22	47.30	856.88
Low	-	-	-	-
Total	1,355.61	1,028.59	463.52	2,847.72
West Virginia:				
High	5,326.67	6,643.91	9,961.67	21,932.25
Medium	1,365.61	318.98	335.18	2,019.77
Low	2,813.63	488.14	409.30	3,711.07
Total	9,505.91	7,451.03	10,706.15	27,663.09
Appalachian Region:				
High	11,508.88	13,156.36	49,846.57	74,511.81
Medium	1,741.97	2,435.20	3,397.74	7,574.91
Low	2,814.12	1,629.36	2,283.00	6,726.48
Grand total	16,064.97	17,220.92	55,527.31	88,813.20

[1]DMMf basis; high volatile--greater than 31 percent volatile matter; medium volatile--greater than 22 percent, equal to or less than 31 percent; low volatile--greater than 14 percent, equal to or less than 22 percent.

NOTE.--Dashes indicate that there is no coking coal DRB in that category.

TABLE 4. - Coking coal demonstrated reserve base, Midwestern Region

(Million tons)

State and volatile matter[1]	Premium	Marginal	Latent	Total
Arkansas:				
High	-	-	-	-
Medium	-	-	-	-
Low	24.50	382.00	23.20	429.70
Total	24.50	382.00	23.20	429.70
Illinois:				
High	-	4,070.54	41,899.51	45,968.05
Medium	-	-	-	-
Low	-	-	-	-
Total	-	4,070.54	41,899.51	45,968.05
Indiana:				
High	-	1,842.44	5,744.10	7,586.54
Medium	-	-	-	-
Low	-	-	-	-
Total	-	1,842.44	5,744.10	7,586.54
Iowa:				
High	-	-	1,736.83	1,736.83
Medium	-	-	-	-
Low	-	-	-	-
Total	-	-	1,736.83	1,736.83
Kansas:				
High	-	-	529.39	529.39
Medium	-	-	-	-
Low	-	-	-	-
Total	-	-	529.39	529.39
Michigan:				
High	-	82.61	28.56	111.17
Medium	-	-	-	-
Low	-	-	-	-
Total	-	82.61	28.56	111.17
Missouri:				
High	-	-	3,656.70	3,656.70
Medium	-	-	-	-
Low	-	-	-	-
Total	-	-	3,656.70	3,656.70
Oklahoma:				
High	46.26	122.40	457.72	626.38
Medium	13.81	41.54	91.22	146.57
Low	-	61.26	-	61.26
Total	60.07	225.20	548.94	834.21
Midwest Region:				
High	46.26	6,117.99	54,052.81	60,217.06
Medium	13.81	41.54	91.22	146.57
Low	24.50	443.26	23.20	490.96
Grand total	84.57	6,602.79	54,167.23	60,854.59

[1]DMMF basis; high volatile--greater than 31 percent volatile matter; medium volatile--greater than 22 percent, equal to or less than 31 percent; low volatile--greater than 14 percent, equal to or less than 22 percent.

NOTE.--Dashes indicate that there is no coking coal DRB in that category.

TABLE 5. - Coking coal demonstrated reserve base, Western Region

(Million tons)

State and volatile matter[1]	Premium	Marginal	Latent	Total
Colorado:				
High	2,025.99	1,669.54	610.65	4,306.18
Medium	-	4.51	-	4.51
Low	-	-	-	-
Total	2,025.99	1,674.05	610.65	4,310.69
Montana:				
High	-	-	1,254.03	1,254.03
Medium	-	-	-	-
Low	-	-	-	-
Total	-	-	1,254.03	1,254.03
New Mexico:				
High	-	1,761.20	6.90	1,768.10
Medium	-	-	-	-
Low	-	9.10	-	9.10
Total	-	1,770.30	6.90	1,777.20
Utah:				
High	782.24	29.67	210.00	1,021.91
Medium	-	-	-	-
Low	-	-	-	-
Total	782.24	29.67	210.00	1,021.91
Washington:				
High	7.90	1.64	123.13	132.67
Medium	-	1.64	3.34	4.98
Low	-	-	-	-
Total	7.90	3.28	126.47	137.65
Wyoming:				
High	-	4,006.16	494.70	4,500.86
Medium	-	-	-	-
Low	-	-	-	-
Total	-	4,006.16	494.70	4,500.86
Western Region:				
High	2,816.13	7,468.21	2,699.41	12,983.75
Medium	-	6.15	3.34	9.49
Low	-	9.10	-	9.10
Grand total	2,816.13	7,483.46	2,702.75	13.002.34

[1]DMMF basis; high volatile--greater than 31 percent volatile matter; medium volatile--greater than 22 percent, equal to or less than 31 percent; low volatile--greater than 14 percent, equal to or less than 22 percent.

NOTE.--Dashes indicate that there is no coking coal DRB in that category.

TABLE 6. - Coking coal demonstrated reserve base, by region

Region and volatile matter[1]	Premium			Marginal		
	Million tons	Percent of-- Regional total	Percent of-- U.S. total	Million tons	Percent of-- Regional total	Percent of-- U.S. total
Eastern:						
High	11,508.88	71.64	NAp	13,156.36	76.40	NAp
Medium	1,741.97	10.84	NAp	2,435.20	14.14	NAp
Low	2,814.12	17.52	NAp	1,629.36	9.46	NAp
Total	16,064.97	100.00	84.70	17,220.92	100.00	55.01
Midwestern:						
High	46.26	54.70	NAp	6,117.99	92.66	NAp
Medium	13.81	16.33	NAp	41.54	.63	NAp
Low	24.50	28.97	NAp	443.26	6.71	NAp
Total	84.57	100.00	.45	6,602.79	100.00	21.09
Western:						
High	2,816.13	100.00	NAp	468.21	99.80	NAp
Medium	-	-	-	6.15	.08	NAp
Low	-	-	-	9.10	.12	NAp
Total	2,816.13	100.00	14.85	7,483.46	100.00	23.90
United States:						
High	14,371.27	NAp	75.77	26,742.56	NAp	85.42
Medium	1,755.78	NAp	9.26	2,482.89	NAp	7.93
Low	2,838.62	NAp	14.97	2,081.72	NAp	6.65
Grand total	18,965.67	NAp	100.00	31,307.17	NAp	100.00

	Latent			United States	
	Million tons	Percent of-- Regional total	Percent of-- U.S. total	Million tons	Percent of U.S. total
Eastern:					
High	49,846.57	89.77	NAp	74,511.81	45.80
Medium	3,397.74	6.12	NAp	7,574.91	4.66
Low	2,283.00	4.11	NAp	6,726.48	4.14
Total	55,523.31	100.00	49.40	88,813.20	54.60
Midwestern:					
High	54,052.81	99.79	NAp	60,217.06	37.01
Medium	91.22	.17	NAp	146.57	.09
Low	23.20	.04	NAp	490.96	.30
Total	54,167.23	100.00	48.19	60,854.59	37.40
Western:					
High	2,699.41	99.88	NAp	12,983.35	7.98
Medium	3.34	.12	NAp	9.49	.01
Low	-	-	-	9.10	.01
Total	2,702.75	100.00	2.40	13,002.34	8.00
United States:					
High	106,598.79	NAp	94.84	147,712.62	90.81
Medium	3,492.30	NAp	3.11	7,730.97	4.75
Low	2,306.20	NAp	2.05	7,226.54	4.44
Grand total	112,397.29	NAp	100.00	162,670.13	100.00

NAp Not applicable.

[1] DMMF basis; high volatile--greater than 31 percent volatile matter; medium volatile--greater than 22 percent, equal to or less than 31 percent; low volatile--greater than 14 percent, equal to or less than 22 percent.

NOTE.--Dashes indicate that there is no coking coal DRB in that category.

The marginal-grade U.S. coking coal DRB is estimated at 31.3 billion tons; 55.0 percent is in the Eastern States, 21.1 in the Midwestern States, and 23.9 percent in the Western States. As with the premium-grade DRB, most of the marginal coal is high volatile--26.7 billion tons, compared with only 4.5 billion tons of medium- and low-volatile coal. Eighty-nine percent of the medium- and low-volatile marginal coal occurs in the Eastern States, most of it in Pennsylvania, West Virginia, Maryland, and Alabama.

The demonstrated U.S. reserve base of latent-grade coking coal is estimated to be 112.4 billion tons, of which 106.6 billion tons are high-volatile and 5.8 billion tons are medium- and low-volatile coals; and 98 percent of the medium- and low-volatile latent coals occur in the Eastern States.

ESTIMATED LIFE OF COKING COAL RESERVE BASE

The Bureau of Mines collected data on the origin of high-, medium-, and low-volatile coal shipped to coke plants in the United States. Data for 1971-75 inclusive are summarized in table 7 for the Eastern, Midwestern, and Western States.

The data indicate a fairly stable input of coal to coke ovens in the 5-year period. Of the total coal received by coke plants in the United States in 1975, 56.4 million tons (66.9 percent) was high-volatile bituminous coal, 10.9 million tons (12.9 percent) was medium-volatile coal, and 17.1 million tons (20.2 percent) was low-volatile coal. Based on 1971-75 consumption and assuming 50-percent recovery, the worst case--one in which only premium coals went to coke plants--would be that the premium high-volatile DRB would be exhausted in 127 years, the medium-volatile DRB in 80 years, and the low-volatile DRB in 83 years.

If we assume that improved and new coal washing techniques will move 20 percent of the marginal high-volatile coal DRB (26,742.56 million tons) into premium grade, then the life of the premium high-volatile DRB would be extended to 174 years. Similarly, if 20 percent of the marginal medium-volatile DRB (2,482.89 million tons) can be upgraded, the DRB would last 103 years. Under similar conditions the marginal low-volatile DRB would last 95 years.

The above assessment does not include any latent-grade coking coal, of which there is a 112.4-billion-ton DRB in the United States. Improved and new coal-washing techniques will no doubt move sizable portions into marginal categories. Medium- and low-volatile marginal-grade coking coals can be mixed with premium-grade high-volatile coals to make acceptable cokes.

It appears, then, that the supply of coals suitable for coke manufacture is adequate for at least 80 years hence. However, should substantial quantities of premium-grade high-volatile coking coals be diverted to electric power generation, then the life of the reserves could be substantially reduced.

TABLE 7. - Origin of bituminous coal received by U.S. coke plants, by region

(Million tons)

Volatile matter[1]	Region			U.S. total
	Eastern	Midwestern	Western	
1971				
High	45.91	4.00	3.89	53.80
Medium	11.67	.21	.73	12.61
Low	11.93	.14	-	12.07
Total	69.51	4.35	4.62	78.48
Total coal produced in region	421.40	87.33	13.75	522.48
Percent coking coal	17	5	34	15
1972				
High	50.28	3.86	3.86	58.00
Medium	13.60	.22	.65	14.47
Low	14.93	.18	-	15.11
Total	78.81	4.26	4.51	87.58
Total coal produced in region	439.58	99.93	17.52	557.03
Percent coking coal	18	4	26	16
1973				
High	52.73	4.09	4.20	61.02
Medium	10.17	.27	1.00	11.44
Low	17.39	.22	.01	17.62
Total	80.29	4.58	5.21	90.08
Total coal produced in region	428.48	94.70	22.24	545.42
Percent coking coal	19	5	23	17
1974				
High	51.86	4.20	4.34	60.40
Medium	9.57	.18	.40	10.15
Low	16.42	.18	.49	17.09
Total	77.85	4.56	5.23	87.64
Total coal produced in region	429.56	89.97	25.87	545.40
Percent coking coal	18	5	20	16
1975				
High	48.31	3.96	4.16	56.43
Medium	10.26	.24	.41	10.91
Low	16.23	.28	.54	17.05
Total	74.80	4.48	5.11	84.39
Total coal produced in region	452.77	94.28	30.02	577.07
Percent coking coal	17	5	17	15

[1] DMMF basis; high volatile--greater than 31 percent volatile matter; medium volatile--greater than 22 percent, equal to or less than 31 percent; low volatile--greater than 14 percent, equal to or less than 22 percent.

CONCLUSIONS

The demonstrated reserve base of coking coal for the entire United States is 162.67 billion tons. Fifty-five percent is in the Eastern States, 37 percent is in the Midwestern States, and 8 percent is in the Western States. However, when premium-grade (metallurgical) coking coals are considered, the U.S. DRB is only 18.96 billion tons, of which 14.37 billion tons are high-volatile coal, 1.75 billion tons are medium-volatile coal, and 2.84 billion tons are low-volatile coal. Most of the premium-grade coking coals are in the Eastern States, which contain 80.0 percent of all high-volatile, 99.2 percent of all medium-volatile, and 99.0 percent of the low-volatile premium-grade coking coals.

The U.S. demonstrated reserve base of marginal-grade coking coal is 31.3 billion tons; 26.7 billion tons are high-volatile, 2.5 billion tons are medium-volatile, and 2.1 billion tons are low-volatile coking coal. More than half the marginal reserve base is in the Eastern States, and 76.4 percent of it is high-volatile coal. Ninety-eight percent of the medium-volatile and 78.3 percent of the low-volatile marginal coals are in the Eastern States.

The Eastern and Midwestern States contain most of the latent-grade DRB of 112.4 billion tons, but as in other grades, most (106.6 billion tons) is high-volatile coal. About 98 percent of the medium- and low-volatile latent coals occur in the Eastern States.

For the long term, it is probable that improved and new coal washing techniques will extend the coking coal DRB considerably, shifting many latent and marginal coals into marginal and premium grades.

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APPENDIX A.--U.S. COALBEDS--ANALYSES, RANK, AND GRADE

BED	TYPE ANAL	********PROXIMATE******** NOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI (1)	AVER HGI (2)	RANK (3)	GRADE
COUNTY:	7 BIBB																	
202	RAW	4.4	31.9	48.7	19.5	1.5	11815.	4.5	66.9	1.3	6.4	61.9	13923.	2290.	0.0	0.	HVB BIT	LATENT
220	RAW	3.2	35.7	57.8	6.5	0.7	13998.	5.1	78.5	1.2	7.7	62.3	14441.	2194.	0.0	0.	HVA BIT	PREMIUM
223	RAW	5.2	32.9	53.1	14.0	1.2	13050.	4.6	72.5	1.3	6.4	62.9	14286.	2230.	0.0	0.	HVA BIT	LATENT
225	RAW	2.1	37.2	57.2	5.6	0.8	14379.	5.1	79.9	1.4	6.5	61.0	14846.	2253.	0.0	0.	HVA BIT	PREMIUM
225	WASH	2.8	36.3	57.0	6.7	0.9	14214.	5.3	81.7	1.4	6.7	61.6	14742.	2291.	6.4	51.	HVA BIT	PREMIUM
239	RAW	3.5	33.6	59.8	6.6	1.2	14400.	5.1	79.3	1.4	5.2	64.7	14762.	2130.	0.0	0.	HVA BIT	MARGINAL
296	RAW	3.4	30.0	52.8	17.2	2.3	12540.	0.0	0.0	0.0	0.0	65.4	14413.	2700.	8.0	76.	HVA BIT	LATENT
364	RAW	2.6	34.9	55.3	9.8	0.6	13498.	0.0	0.0	0.0	0.0	61.9	14580.	2310.	0.0	0.	HVA BIT	MARGINAL
364	WASH	4.2	36.8	55.4	7.8	0.5	13779.	0.0	0.0	0.0	0.0	60.6	14293.	2210.	0.0	0.	HVA BIT	PREMIUM
985	RAW	2.9	33.6	57.8	8.6	1.1	13938.	0.0	0.0	0.0	0.0	64.0	14720.	2320.	0.0	0.	HVA BIT	MARGINAL
985	WASH	3.3	34.6	57.8	7.6	1.1	14127.	0.0	0.0	0.0	0.0	63.2	14697.	0.	0.0	0.	HVA BIT	MARGINAL
986	WASH	5.0	36.8	57.7	5.5	0.9	14160.	0.0	0.0	0.0	0.0	61.5	14141.	2300.	6.0	0.	HVA BIT	PREMIUM
COUNTY:	9 BLOUNT																	
236	RAW	5.5	32.3	59.9	7.8	1.6	14073.	0.0	0.0	0.0	0.0	65.8	14229.	2593.	7.0	73.	HVA BIT	MARGINAL
281	RAW	2.3	30.5	54.7	14.8	1.2	12920.	4.7	72.2	1.7	5.4	65.4	14776.	2680.	7.0	55.	HVA BIT	LATENT
299	RAW	3.5	32.8	62.4	4.8	0.9	14486.	5.1	83.6	1.8	5.1	66.1	14601.	2392.	8.6	60.	HVA BIT	PREMIUM
338	RAW	2.7	30.7	54.8	14.5	1.3	12950.	4.9	69.0	1.7	7.8	65.3	14669.	2645.	5.5	54.	HVA BIT	LATENT
364	RAW	3.6	33.0	62.6	4.4	1.8	14670.	0.0	0.0	0.0	0.0	66.1	14584.	2220.	0.0	0.	HVA BIT	MARGINAL
COUNTY:	43 CULLMAN																	
299	RAW	4.0	36.8	59.6	3.6	0.8	14487.	5.4	83.5	1.8	7.1	62.1	14342.	2509.	4.9	47.	HVA BIT	PREMIUM
COUNTY:	55 ETOWAH																	
236	RAW	2.9	31.9	61.0	7.1	1.9	14300.	0.0	0.0	0.0	0.0	66.5	14741.	2080.	8.5	0.	HVA BIT	LATENT
COUNTY:	57 FAYETTE																	
281	RAW	3.1	35.2	54.4	10.4	0.7	13204.	0.0	0.0	0.0	0.0	61.5	14263.	0.	0.0	0.	HVA BIT	MARGINAL
299	RAW	5.5	35.9	52.5	11.6	1.6	12950.	0.0	0.0	0.0	0.0	60.3	13659.	2360.	0.0	0.	HVB BIT	MARGINAL

[1] FSI--free swelling index; where 0.0 is shown, no data were available.
[2] HGI--Hardgrove grindability index.
[3] See table 2 for specifications for high-volatile A, B, and C coals.

AVERAGE COALBED ANALYSES FOR STATE: 1 ALABAMA

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
	COUNTY:	71	JACKSON															
326	RAW	1.7	39.0	52.0	9.1	1.5	13895.	0.0	0.0	0.0	0.0	57.9	14896.	0.	0.0	0.	HVA BIT	MARGINAL
	COUNTY:	73	JEFFERSON															
001	RAW	3.5	32.0	56.8	11.1	2.1	13328.	0.0	0.0	0.0	0.0	65.1	14256.	2310.	6.6	0.	HVA BIT	LATENT
001	WASH	3.0	35.8	57.1	7.1	1.1	13994.	0.0	0.0	0.0	0.0	62.1	14520.	2516.	7.5	68.	HVA BIT	MARGINAL
201	RAW	3.9	24.4	64.8	10.8	2.5	13723.	4.5	78.6	1.7	3.2	74.1	14502.	2202.	8.7	99.	MV BIT	LATENT
207	RAW	0.5	23.8	59.7	16.5	1.9	12920.	0.0	0.0	0.0	0.0	73.2	15318.	2910.	7.5	0.	MV BIT	LATENT
223	RAW	1.8	35.5	57.8	6.7	0.4	14165.	0.0	0.0	0.0	0.0	62.4	14927.	2590.	0.0	0.	HVA BIT	PREMIUM
223	WASH	3.0	34.5	57.8	7.7	0.6	13972.	0.0	0.0	0.0	0.0	63.2	14672.	2700.	0.0	0.	HVA BIT	PREMIUM
227	RAW	2.0	30.1	61.6	8.3	1.8	14179.	5.0	82.0	1.6	4.0	68.2	14971.	2418.	7.0	85.	HVA BIT	MARGINAL
227	WASH	3.1	29.6	63.3	7.1	1.6	14444.	4.9	80.8	1.5	3.5	68.9	14884.	2518.	8.3	89.	HVA BIT	MARGINAL
228	RAW	2.7	28.1	63.0	8.9	1.7	14098.	4.8	80.8	1.5	4.2	70.1	14883.	2508.	7.7	0.	MV BIT	MARGINAL
229	RAW	3.2	32.4	63.4	4.2	1.2	14740.	5.2	83.2	1.8	4.4	66.7	14764.	2480.	0.0	0.	HVA BIT	MARGINAL
278	RAW	3.0	31.4	54.4	14.2	2.1	12980.	4.8	72.1	1.6	5.2	64.8	14481.	2450.	0.0	0.	HVA BIT	LATENT
279	RAW	2.1	27.9	60.0	12.1	1.0	13485.	4.8	76.7	1.6	4.6	69.3	14989.	2718.	8.8	0.	MV BIT	LATENT
279	WASH	5.2	27.3	61.1	11.6	0.9	13562.	4.7	77.9	1.7	4.2	70.1	14462.	2779.	8.0	0.	MV BIT	MARGINAL
280	RAW	3.2	25.4	64.5	10.1	0.9	14045.	4.7	79.1	1.5	3.6	72.6	15078.	2880.	0.0	0.	MV BIT	MARGINAL
280	WASH	2.6	27.8	64.1	8.1	0.8	14226.	4.9	80.9	1.7	4.5	70.4	15022.	2881.	8.1	70.	MV BIT	MARGINAL
296	RAW	2.7	33.8	56.4	9.7	1.0	13585.	5.1	76.5	1.7	5.9	63.3	14587.	2300.	0.0	0.	HVA BIT	MARGINAL
298	RAW	2.6	32.2	59.8	8.0	2.8	14064.	4.9	79.5	1.7	4.6	66.1	14574.	2262.	8.5	59.	HVA BIT	LATENT
299	RAW	2.5	31.5	63.8	4.7	0.8	14662.	5.2	84.2	1.8	5.0	67.4	14922.	2624.	8.2	60.	HVA BIT	PREMIUM
299	WASH	3.3	31.2	63.1	5.7	0.9	14509.	0.0	0.0	0.0	0.0	67.5	14801.	2618.	6.7	0.	HVA BIT	PREMIUM
313	RAW	2.2	31.8	55.5	12.7	0.7	13280.	4.8	75.0	1.6	5.2	64.5	14896.	2440.	0.0	0.	HVA BIT	LATENT
314	RAW	2.0	36.0	56.4	7.6	0.7	14020.	5.1	78.4	1.6	6.6	61.6	14843.	2680.	0.0	0.	HVA BIT	PREMIUM
314	WAS	2.6	33.5	54.9	11.6	0.9	13410.	0.0	0.0	0.0	0.0	63.0	14751.	2780.	8.0	0.	HVA BIT	MARGINAL
315	RAW	2.3	34.4	58.7	6.9	1.5	14190.	5.1	79.3	1.7	5.5	63.8	14745.	2160.	0.0	0.	HVA BIT	MARGINAL
336	RAW	2.5	31.2	60.5	8.4	1.5	13965.	4.9	78.1	1.7	5.6	66.9	14718.	2470.	0.0	0.	HVA BIT	MARGINAL
364	RAW	3.5	36.6	57.3	6.2	0.9	14060.	0.0	0.0	0.0	0.0	61.6	14377.	2340.	4.5	56.	HVA BIT	PREMIUM
364	WASH	4.2	38.2	55.9	6.0	1.2	14103.	5.4	81.0	1.6	7.1	60.0	14238.	2190.	0.0	0.	HVA BIT	MARGINAL
975	RAW	1.8	31.4	61.5	7.1	1.4	14270.	0.0	0.0	0.0	0.0	66.9	14958.	2370.	0.0	0.	HVA BIT	MARGINAL

AVERAGE COALBED ANALYSES FOR STATE: 1 ALABAMA

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
975	WASH	3.7	31.9	62.8	5.3	1.1	14600.	0.0	0.0	0.0	0.0	66.9	14733.	2540.	0.0	0.	HVA BIT	MARGINAL
977	RAW	3.8	32.4	60.7	6.9	0.8	14314.	0.0	0.0	0.0	0.0	65.8	14720.	2600.	0.0	0.	HVA BIT	PREMIUM
984	RAW	1.4	31.8	59.4	8.8	1.9	14117.	0.0	0.0	0.0	0.0	66.1	15092.	0.	0.0	0.	HVA BIT	LATENT
COUNTY:	93	MARION																
001	RAW	4.4	40.5	55.6	3.9	1.0	14200.	0.0	0.0	0.0	0.0	58.2	14018.	0.	0.0	0.	HVA BIT	PREMIUM
001	WASH	5.0	39.9	57.0	3.2	1.0	14315.	0.0	0.0	0.0	0.0	59.2	13943.	2280.	0.0	0.	HVB BIT	PREMIUM
298	RAW	4.6	42.4	54.4	3.2	1.3	14420.	0.0	0.0	0.0	0.0	56.6	14070.	2230.	0.0	0.	HVA BIT	MARGINAL
298	WASH	4.6	40.6	56.2	3.2	1.4	14340.	0.0	0.0	0.0	0.0	58.5	13972.	2150.	3.5	39.	HVB BIT	MARGINAL
299	RAW	4.7	39.8	55.6	4.6	1.1	14115.	5.3	79.8	1.8	8.3	58.7	13972.	2329.	2.2	41.	HVB BIT	MARGINAL
299	WASH	6.3	39.1	57.3	3.6	1.1	14217.	5.3	79.8	1.9	9.1	59.8	13686.	2315.	2.6	40.	HVB BIT	MARGINAL
COUNTY:	115	ST CLAIR																
204	RAW	4.7	35.1	59.7	5.2	1.0	14280.	5.3	80.1	1.7	6.7	63.5	14249.	1920.	0.0	0.	HVA BIT	PREMIUM
225	RAW	1.6	35.1	54.7	10.2	0.9	13650.	0.0	0.0	0.0	0.0	61.7	14933.	0.	0.0	0.	HVA BIT	MARGINAL
225	WASH	3.4	33.8	52.8	13.4	0.8	13022.	0.0	0.0	0.0	0.0	61.9	14514.	2813.	6.5	56.	HVA BIT	LATENT
242	RAW	2.4	34.1	61.5	4.4	1.1	15010.	5.1	83.9	1.5	4.0	64.8	15212.	0.	0.0	0.	HVA BIT	MARGINAL
247	RAW	3.9	29.3	61.0	9.7	1.5	14050.	4.9	78.8	1.4	3.7	68.5	14803.	2380.	0.0	0.	HVA BIT	MARGINAL
277	RAW	5.0	29.0	51.0	20.0	1.9	11660.	0.0	0.0	0.0	0.0	65.6	13653.	0.	0.0	0.	HVB BIT	LATENT
296	RAW	2.2	34.1	56.8	9.1	2.4	13758.	4.9	75.9	1.7	5.6	63.5	14562.	2273.	0.0	0.	HVA BIT	LATENT
296	WASH	7.1	33.3	58.8	8.0	1.7	13870.	0.0	0.0	0.0	0.0	64.7	13786.	2392.	7.0	62.	HVB BIT	MARGINAL
336	RAW	3.8	32.5	57.0	10.5	1.9	13430.	0.0	0.0	0.0	0.0	64.7	14238.	2610.	7.5	53.	HVA BIT	LATENT
COUNTY:	117	SHELBY																
182	RAW	3.2	35.5	56.3	8.2	0.4	13705.	4.8	76.9	1.2	8.4	61.8	14465.	2350.	0.0	0.	HVA BIT	MARGINAL
194	RAW	2.4	38.2	54.9	6.9	0.7	14002.	5.1	77.7	1.2	7.5	59.4	14635.	2244.	0.0	0.	HVA BIT	PREMIUM
194	WASH	3.2	37.5	54.8	7.6	0.6	13879.	5.1	78.2	1.5	7.1	59.9	14515.	2287.	4.7	48.	HVA BIT	PREMIUM
204	RAW	3.4	35.0	56.5	8.5	0.5	13811.	5.1	78.3	1.5	7.0	62.3	14575.	2599.	0.0	0.	HVA BIT	MARGINAL
204	WASH	3.8	35.0	56.9	8.1	0.5	13825.	5.2	79.4	1.5	7.3	62.5	14467.	2555.	3.0	47.	HVA BIT	MARGINAL
220	RAW	2.8	31.7	57.6	10.7	1.1	13407.	4.9	75.2	1.3	6.9	65.4	14518.	2210.	0.0	0.	HVA BIT	MARGINAL
223	RAW	3.6	35.1	61.4	3.5	0.6	14764.	5.3	82.8	1.5	6.3	63.9	14684.	2176.	0.0	0.	HVA BIT	PREMIUM
225	RAW	2.7	35.0	58.5	6.5	0.9	14291.	5.0	77.8	1.4	6.7	63.1	14796.	2190.	0.0	0.	HVA BIT	PREMIUM

AVERAGE COALBED ANALYSES FOR STATE: 1 ALABAMA

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
227	WASH	2.9	38.4	52.2	9.4	2.3	13507.	0.0	0.0	0.0	0.0	58.5	14231.	2416.	4.7	0.	HVA BIT	LATENT
228	RAW	3.0	31.0	57.4	11.6	2.1	13190.	4.9	74.0	1.6	5.8	66.1	14266.	2600.	0.0	0.	HVA BIT	LATENT
229	RAW	3.3	33.6	52.0	14.4	1.8	12703.	4.8	70.3	1.6	6.6	62.0	14200.	2731.	4.5	50.	HVA BIT	LATENT
229	WASH	3.2	34.6	54.0	11.3	1.5	13205.	5.0	75.3	1.8	6.8	61.9	14291.	2738.	5.7	50.	HVA BIT	MARGINAL
278	RAW	3.4	37.7	46.8	15.5	3.4	12430.	0.0	0.0	0.0	0.0	56.9	13830.	2070.	5.0	45.	HVB BIT	LATENT
279	RAW	3.4	32.5	53.2	14.3	0.8	12629.	4.7	72.2	1.7	7.1	63.1	14226.	2791.	2.6	50.	HVA BIT	LATENT
279	WASH	3.9	32.2	53.9	14.0	0.8	12771.	4.7	72.3	1.8	6.6	63.6	14240.	2818.	3.6	52.	HVA BIT	LATENT
281	RAW	4.5	34.8	56.0	9.2	0.9	13240.	4.9	72.7	1.7	8.6	62.4	13848.	2779.	2.5	49.	HVB BIT	MARGINAL
299	RAW	3.3	37.9	57.2	4.9	1.4	14205.	5.4	82.6	1.9	6.5	60.7	14289.	2344.	4.5	45.	HVA BIT	MARGINAL
299	WASH	4.2	38.0	57.7	4.3	1.3	14312.	5.5	82.8	1.9	7.2	60.8	14179.	2354.	5.1	44.	HVA BIT	MARGINAL
970	RAW	2.7	32.8	54.3	12.9	0.9	12930.	0.0	0.0	0.0	0.0	63.3	14425.	2885.	2.5	0.	HVA BIT	LATENT
970	WASH	4.1	33.0	54.0	13.0	1.1	12863.	0.0	0.0	0.0	0.0	63.1	14088.	2877.	4.1	50.	HVA BIT	LATENT
975	WASH	3.4	34.9	53.5	11.6	1.6	13148.	4.9	73.1	1.8	6.6	61.5	14220.	2784.	6.0	50.	HVA BIT	MARGINAL
COUNTY:		133	WINSTON															
299	RAW	5.4	40.3	55.4	4.3	1.4	14096.	0.0	0.0	0.0	0.0	58.3	13773.	2213.	1.0	47.	HVB BIT	MARGINAL
299	WASH	7.3	39.3	56.9	3.8	1.3	14131.	5.2	78.6	2.0	8.5	59.6	13455.	2192.	2.7	41.	HVB BIT	MARGINAL

AVERAGE COALBED ANALYSES FOR STATE: 1 ALABAMA

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
225	WASH	3.1	34.7	58.9	6.4	0.7	14332.	0.0	0.0	0.0	0.0	63.4	14778.	2165.	0.0	0.	HVA BIT	PREMIUM
239	RAW	3.0	37.5	58.6	3.9	0.8	14640.	5.3	81.9	1.5	6.6	61.3	14711.	2301.	8.0	61.	HVA BIT	PREMIUM
239	WASH	3.4	38.8	57.8	3.5	0.9	14073.	5.5	83.2	2.0	5.8	60.2	14585.	2245.	4.8	49.	HVA BIT	PREMIUM
240	RAW	2.6	35.1	61.6	3.3	0.7	14730.	5.2	80.7	1.4	8.7	64.0	14770.	0.	0.0	0.	HVA BIT	PREMIUM
277	RAW	3.7	35.0	61.1	3.9	0.5	14900.	5.3	83.2	1.6	5.5	63.9	14889.	0.	0.0	0.	HVA BIT	PREMIUM
982	RAW	2.0	36.1	59.2	4.7	0.6	14533.	0.0	0.0	0.0	0.0	62.5	14902.	2370.	0.0	0.	HVA BIT	PREMIUM
982	WASH	2.6	35.6	59.0	5.4	0.7	14421.	0.0	0.0	0.0	0.0	62.8	14785.	2195.	0.0	0.	HVA BIT	PREMIUM
COUNTY:	125	TUSCALOOSA																
001	RAW	3.2	32.5	59.0	8.5	1.3	13939.	0.0	0.0	0.0	0.0	65.3	14642.	2615.	7.5	0.	HVA BIT	MARGINAL
001	WASH	3.8	33.1	58.9	8.1	1.3	14053.	0.0	0.0	0.0	0.0	64.8	14573.	2580.	8.0	0.	HVA BIT	MARGINAL
198	RAW	3.3	30.8	57.1	12.2	1.2	13320.	4.8	76.4	1.5	5.0	66.0	14580.	2856.	7.0	64.	HVA BIT	LATENT
198	WASH	3.2	33.6	53.6	12.8	1.3	13122.	4.7	69.6	1.6	5.6	62.4	14476.	2910.	6.0	59.	HVA BIT	LATENT
199	RAW	3.0	32.4	60.2	7.4	1.5	14171.	5.2	81.3	1.5	5.6	65.8	14700.	2392.	7.2	66.	HVA BIT	MARGINAL
199	WASH	4.4	33.5	60.0	6.5	1.3	14346.	4.7	75.0	1.7	4.4	64.9	14536.	2600.	7.7	60.	HVA BIT	MARGINAL
200	RAW	3.8	32.7	60.8	6.5	1.2	14323.	0.0	0.0	0.0	0.0	65.7	14626.	2477.	7.2	59.	HVA BIT	MARGINAL
201	RAW	2.7	33.7	61.8	4.5	1.3	14760.	0.0	0.0	0.0	0.0	65.2	14899.	2250.	8.5	66.	HVA BIT	MARGINAL
280	RAW	4.6	25.1	65.4	9.5	0.7	14080.	4.8	79.1	1.6	4.3	73.1	14792.	2770.	0.0	0.	MV BIT	MARGINAL
281	RAW	2.3	25.6	66.7	7.7	0.6	14423.	4.7	80.2	1.5	3.8	73.0	15253.	2730.	0.0	0.	MV BIT	PREMIUM
979	WASH	3.2	32.2	51.8	16.0	1.3	12640.	0.0	0.0	0.0	0.0	62.9	14497.	2910.	7.0	60.	HVA BIT	LATENT
980	WASH	3.4	31.2	56.9	11.9	0.9	13280.	0.0	0.0	0.0	0.0	65.5	14518.	2910.	8.0	64.	HVA BIT	MARGINAL
981	RAW	4.2	31.3	55.0	13.8	1.4	13080.	0.0	0.0	0.0	0.0	64.9	14414.	2825.	7.7	65.	HVA BIT	LATENT
981	WASH	5.2	31.9	57.1	11.0	1.1	13458.	5.0	73.9	1.6	6.1	65.1	14225.	2835.	6.7	60.	HVA BIT	MARGINAL
COUNTY:	127	WALKER																
001	RAW	3.4	34.1	53.9	12.0	0.8	12913.	0.0	0.0	0.0	0.0	62.0	14143.	2787.	0.0	0.	HVA BIT	MARGINAL
001	WASH	3.4	35.5	52.2	12.3	1.6	12849.	0.0	0.0	0.0	0.0	60.5	14021.	2692.	0.0	0.	HVA BIT	LATENT
201	RAW	1.2	34.6	51.0	14.4	3.8	12850.	0.0	0.0	0.0	0.0	61.2	14427.	2530.	8.0	0.	HVA BIT	LATENT
218	RAW	3.6	39.5	52.2	8.3	1.9	13714.	5.1	76.7	1.7	5.4	57.7	14207.	2367.	4.8	49.	HVA BIT	LATENT
227	RAW	2.9	38.4	51.0	10.6	2.2	13317.	5.2	75.9	1.7	6.3	58.1	14244.	2457.	4.7	49.	HVA BIT	LATENT

AVERAGE COALBED ANALYSES FOR STATE: 2 ALASKA

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
COUNTY:	5 COOK INLET SUSITNA																	
001	RAW	9.2	38.9	43.9	16.0	0.3	11871.	0.0	0.0	0.0	0.0	53.2	12750.	2736.	1.1	0.	HVC BIT	LATENT
001	WASH	6.8	40.2	44.4	15.4	0.3	12117.	0.0	0.0	0.0	0.0	53.4	13322.	2628.	1.7	52.	HVB BIT	LATENT
COUNTY:	14 YUKON RIVER																	
001	RAW	23.2	47.5	41.8	11.0	0.2	11140.	0.0	0.0	0.0	0.0	47.4	9401.	2346.	0.0	37.	SUBBIT C	

AVERAGE COALBED ANALYSES FOR STATE: 5 ARKANSAS

BED	TYPE ANAL	MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER MGI	RANK	GRADE
		********PROXIMATE********						********ULTIMATE********										
	COUNTY:	47	FRANKLIN															
554	RAW	2.6	17.8	74.7	7.5	2.0	14440.	0.0	0.0	0.0	0.0	82.0	14996.	2317.	9.0	109.	LV BIT	LATENT
563	RAW	3.2	15.7	76.7	7.6	1.4	14367.	0.0	0.0	0.0	0.0	84.0	14905.	2304.	0.0	0.	LV BIT	MARGINAL
799	RAW	2.9	19.8	73.7	6.5	3.4	14620.	0.0	0.0	0.0	0.0	80.3	14770.	0.	0.0	0.	LV BIT	LATENT
	COUNTY:	71	JOHNSON															
554	RAW	3.4	15.2	79.5	5.3	0.7	14813.	4.4	88.6	2.0	1.4	84.6	15052.	2265.	8.5	103.	LV BIT	PREMIUM
562	RAW	4.3	11.2	80.9	7.9	3.7	14200.	0.0	0.0	0.0	0.0	89.8	14302.	2230.	0.0	75.	SEMIANTH	
562	WASH	4.6	12.5	81.1	6.4	3.0	14520.	0.0	0.0	0.0	0.0	88.2	14434.	2190.	0.0	82.	SEMIANTH	
563	RAW	2.4	12.6	77.9	9.5	2.5	13943.	3.7	82.2	1.6	0.7	87.7	14758.	2331.	0.0	80.	SEMIANTH	
563	WASH	3.7	12.6	78.2	9.2	2.3	14023.	0.0	0.0	0.0	0.0	87.7	14614.	2217.	0.0	82.	SEMIANTH	
	COUNTY:	83	LOGAN															
551	RAW	1.7	18.1	70.2	11.7	2.1	13708.	4.2	82.5	1.5	1.9	81.1	15074.	2291.	8.5	0.	LV BIT	LATENT
551	WASH	3.6	17.5	70.2	12.3	2.2	13607.	4.3	81.2	1.6	1.5	81.7	14728.	2125.	0.0	0.	LV BIT	LATENT
563	RAW	3.6	12.3	80.4	7.4	1.2	14282.	0.0	0.0	0.0	0.0	87.7	14752.	2357.	0.0	0.	SEMIANTH	
	COUNTY:	115	POPE															
563	RAW	2.2	12.5	76.6	10.9	1.9	13712.	0.0	0.0	0.0	0.0	87.5	14877.	2246.	0.0	0.	SEMIANTH	
	COUNTY:	127	SCOTT															
563	RAW	2.0	20.0	70.6	9.4	1.1	14055.	0.0	0.0	0.0	0.0	79.0	15139.	2302.	0.0	0.	LV BIT	MARGINAL
	COUNTY:	131	SEBASTIAN															
562	RAW	1.9	18.2	74.4	7.5	0.9	14396.	4.2	83.1	1.7	2.2	81.2	15211.	2308.	8.5	113.	LV BIT	PREMIUM
563	RAW	2.7	17.2	72.6	10.1	1.5	13939.	4.4	85.6	1.8	1.8	82.1	14965.	2251.	9.0	111.	LV BIT	MARGINAL

AVERAGE COALBED ANALYSES FOR STATE: 6 COLORADO

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
	COUNTY:	7	ARCHULETA															
799	RAW	3.7	38.1	48.2	13.7	0.7	12849.	5.1	69.9	1.4	8.9	56.6	14324.	2781.	4.0	51.	HVA BIT	LATENT
	COUNTY:	13	BOULDER															
799	RAW	19.5	38.9	54.4	6.7	0.4	12348.	4.7	72.8	1.6	14.9	58.7	10512.	2121.	0.0	46.	HVC BIT	PREMIUM
	COUNTY:	29	DELTA															
753	RAW	3.9	41.9	53.5	4.6	0.4	13940.	0.0	0.0	0.0	0.0	56.4	14017.	0.	0.0	0.	HVA BIT	PREMIUM
754	RAW	8.8	41.8	53.9	4.3	0.6	13568.	0.0	0.0	0.0	0.0	56.6	12849.	2667.	1.3	52.	HVC BIT	PREMIUM
799	RAW	11.9	39.6	53.2	7.2	0.7	12970.	5.1	70.7	1.6	12.1	57.8	12200.	2646.	2.7	53.	HVC BIT	PREMIUM
978	RAW	6.6	39.6	51.9	8.5	0.5	13330.	5.2	74.4	1.6	9.8	57.2	13554.	2560.	4.0	0.	HVB BIT	MARGINAL
	COUNTY:	39	ELBERT															
799	RAW	32.9	42.2	45.8	12.0	0.7	9430.	4.5	64.8	1.3	16.7	52.7	6885.	2280.	0.0	0.	LIGNIT A	
	COUNTY:	41	EL PASO															
733	RAW	23.4	42.1	49.2	8.7	0.4	11450.	4.5	67.3	1.0	18.5	54.4	9415.	2246.	0.0	46.	SUBBIT C	
	COUNTY:	43	FREMONT															
001	RAW	8.4	42.8	50.0	7.2	1.6	12890.	0.0	0.0	0.0	0.0	54.5	12539.	0.	0.0	0.	HVC BIT	MARGINAL
002	RAW	10.9	38.5	52.0	9.5	0.4	12264.	0.0	0.0	0.0	0.0	58.0	11981.	2400.	0.0	0.	HVC BIT	MARGINAL
002	WASH	10.6	37.9	51.2	10.9	0.4	12049.	0.0	0.0	0.0	0.0	58.1	11993.	2405.	0.0	0.	HVC BIT	MARGINAL
712	RAW	8.7	40.2	51.8	8.1	0.7	12736.	0.0	0.0	0.0	0.0	56.8	12548.	2179.	0.0	0.	HVC BIT	MARGINAL
732	RAW	8.4	40.3	51.1	8.6	0.9	12735.	5.1	71.5	1.3	12.1	56.5	12645.	2178.	0.0	50.	HVC BIT	MARGINAL
736	RAW	10.6	40.3	48.8	11.0	2.6	12100.	0.0	0.0	0.0	0.0	55.8	11797.	2375.	0.0	54.	HVC BIT	LATENT
736	WASH	11.1	41.0	49.0	10.1	2.1	12335.	0.0	0.0	0.0	0.0	55.3	11906.	2445.	0.0	0.	HVC BIT	LATENT
744	RAW	8.7	38.8	50.8	10.3	0.8	12365.	0.0	0.0	0.0	0.0	57.4	12476.	2223.	0.0	46.	HVC BIT	MARGINAL
744	WASH	10.5	39.5	49.8	10.8	1.2	12247.	0.0	0.0	0.0	0.0	56.5	12092.	2280.	0.0	42.	HVC BIT	MARGINAL
749	RAW	9.0	38.4	51.3	10.3	0.6	12523.	0.0	0.0	0.0	0.0	57.8	12602.	2233.	0.0	0.	HVC BIT	MARGINAL
758	RAW	10.6	38.3	51.0	10.7	0.5	12093.	4.8	71.6	1.1	13.8	57.8	12004.	2420.	0.0	47.	HVC BIT	MARGINAL
758	WASH	11.3	38.6	49.5	12.0	0.4	11887.	0.0	0.0	0.0	0.0	56.9	11850.	2449.	0.0	46.	HVC BIT	MARGINAL
765	RAW	10.0	39.4	51.2	9.3	0.9	12378.	4.9	68.8	1.2	12.7	57.2	12134.	2312.	0.0	46.	HVC BIT	MARGINAL
767	RAW	9.1	40.0	49.7	10.3	1.5	12414.	0.0	0.0	0.0	0.0	56.2	12376.	2050.	0.0	45.	HVC BIT	MARGINAL

AVERAGE COALBED ANALYSES FOR STATE: 8 COLORADO

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
799	RAW	10.7	39.2	51.7	9.1	0.8	12399.	4.9	71.1	1.1	13.4	57.5	12042.	2238.	0.0	48.	HVC BIT	MARGINAL
799	WASH	10.4	38.1	50.3	11.6	0.5	11942.	0.0	0.0	0.0	0.0	57.6	11997.	2363.	0.0	41.	HVC BIT	MARGINAL
971	RAW	10.9	39.4	49.8	10.8	1.0	12110.	0.0	0.0	0.0	0.0	56.6	11926.	2150.	0.0	0.	HVC BIT	MARGINAL
COUNTY:	45	GARFIELD																
715	RAW	5.1	41.3	49.8	8.8	0.6	12918.	5.2	75.0	1.6	10.8	55.2	13401.	2548.	2.5	52.	HVB BIT	MARGINAL
718	RAW	4.0	39.7	55.2	5.1	0.5	13803.	5.4	77.9	1.8	10.7	58.6	13928.	2270.	2.5	52.	HVB BIT	PREMIUM
759	RAW	7.7	40.7	52.2	7.1	0.7	12975.	5.2	75.4	1.8	11.7	56.7	12806.	2185.	1.0	51.	HVC BIT	PREMIUM
799	RAW	7.4	40.5	51.9	7.6	0.9	13002.	5.2	73.1	1.7	12.1	56.7	12924.	2510.	1.3	51.	HVC BIT	PREMIUM
COUNTY:	51	GUNNISON																
001	RAW	5.9	39.3	50.6	10.1	0.5	12977.	0.0	0.0	0.0	0.0	56.9	13548.	2410.	0.0	0.	HVB BIT	MARGINAL
753	RAW	5.2	39.8	51.1	9.1	0.5	13179.	0.0	0.0	0.0	0.0	56.8	13709.	2472.	2.3	45.	HVB BIT	MARGINAL
754	RAW	5.7	40.5	53.3	6.2	0.5	13569.	5.3	75.7	1.8	9.9	57.2	13588.	2587.	2.4	51.	HVB BIT	PREMIUM
755	RAW	6.0	40.5	52.7	6.9	0.5	13415.	0.0	0.0	0.0	0.0	57.0	13483.	2584.	1.7	52.	HVB BIT	PREMIUM
756	RAW	6.0	41.0	54.5	4.5	0.5	13856.	5.4	78.2	1.8	10.3	57.4	13575.	2291.	2.3	53.	HVB BIT	PREMIUM
799	RAW	7.1	34.5	59.0	6.5	0.6	13418.	5.2	74.3	1.7	12.3	63.6	13267.	2326.	0.0	49.	HVB BIT	PREMIUM
COUNTY:	55	HUERFANO																
001	RAW	5.9	39.8	47.0	13.3	0.6	12090.	0.0	0.0	0.0	0.0	54.9	13060.	2480.	0.0	0.	HVB BIT	LATENT
722	RAW	3.4	40.2	49.2	10.5	0.8	13082.	0.0	0.0	0.0	0.0	55.7	14097.	2523.	3.4	48.	HVA BIT	MARGINAL
725	RAW	7.0	39.0	48.9	12.2	0.6	12270.	5.2	73.7	1.2	11.8	56.4	12929.	2462.	0.0	44.	HVC BIT	LATENT
725	WASH	4.0	37.3	50.1	12.7	0.7	12580.	0.0	0.0	0.0	0.0	58.1	13818.	2670.	0.0	0.	HVB BIT	LATENT
730	RAW	4.9	37.8	48.4	13.8	0.6	12273.	4.9	71.0	1.3	10.8	57.0	13517.	2610.	0.0	43.	HVB BIT	LATENT
745	RAW	5.4	38.5	50.2	11.3	0.6	12550.	5.0	73.3	1.3	10.1	57.3	13344.	2550.	1.7	44.	HVB BIT	MARGINAL
763	RAW	5.6	39.1	49.5	11.4	0.9	12593.	5.1	73.1	1.4	11.5	56.6	13341.	2415.	1.5	44.	HVB BIT	MARGINAL
763	WASH	5.4	40.3	49.7	10.0	0.9	12750.	0.0	0.0	0.0	0.0	55.9	13317.	2420.	0.0	0.	HVB BIT	MARGINAL
799	RAW	5.5	38.6	51.0	10.4	0.7	12711.	5.1	77.9	1.6	9.5	57.5	13349.	2432.	1.0	46.	HVB BIT	MARGINAL
799	WASH	6.9	39.5	50.4	10.2	0.8	12470.	0.0	0.0	0.0	0.0	56.7	12830.	2420.	0.0	0.	HVC BIT	MARGINAL

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
	COUNTY:	57	JACKSON															
799	RAW	16.8	40.6	52.3	7.1	0.5	12146.	4.9	69.6	1.4	16.0	56.7	10753.	2372.	0.0	37.	HVC BIT	PREMIUM
	COUNTY:	59	JEFFERSON															
799	RAW	19.6	40.4	53.7	5.9	0.5	12077.	4.6	69.0	0.9	17.7	57.4	10186.	2207.	0.0	0.	SUBBIT B	
	COUNTY:	67	LA PLATA															
799	RAW	3.9	39.7	53.0	7.3	1.5	13697.	5.5	78.0	1.6	8.0	57.8	14049.	2563.	4.9	50.	HVA BIT	MARGINAL
	COUNTY:	71	LAS ANIMAS															
516	RAW	4.1	34.4	44.3	21.3	0.5	11743.	5.1	65.8	1.4	5.9	57.7	14383.	0.	6.9	0.	HVA BIT	LATENT
516	WASH	2.9	38.9	51.5	9.6	0.5	13730.	5.6	76.5	1.6	6.2	57.6	14753.	0.	0.0	0.	HVA BIT	MARGINAL
709	RAW	2.0	34.4	48.7	17.0	0.7	12585.	0.0	0.0	0.0	0.0	59.7	14928.	2875.	0.0	0.	HVA BIT	LATENT
711	RAW	1.9	30.1	51.5	18.5	0.7	12437.	4.7	70.9	1.3	5.3	64.5	15059.	2910.	6.4	61.	HVA BIT	LATENT
717	RAW	1.8	31.6	53.2	15.2	0.7	12895.	4.8	70.0	1.3	5.8	63.8	14980.	2890.	0.0	0.	HVA BIT	LATENT
719	RAW	2.1	33.9	46.9	19.2	0.7	12180.	4.8	67.4	1.2	6.7	59.3	14848.	2910.	5.5	49.	HVA BIT	LATENT
724	RAW	2.3	35.9	50.9	13.2	0.6	12825.	0.0	0.0	0.0	0.0	59.5	14468.	2843.	0.0	0.	HVA BIT	LATENT
724	WASH	2.5	35.7	52.0	12.4	0.6	12975.	0.0	0.0	0.0	0.0	60.1	14451.	2860.	0.0	0.	HVA BIT	LATENT
725	RAW	2.5	35.8	51.0	13.2	0.6	12840.	4.9	73.4	1.4	8.0	59.6	14441.	2885.	2.2	46.	HVA BIT	LATENT
729	RAW	1.9	30.1	53.2	16.7	0.5	12706.	4.9	72.7	1.6	5.2	65.1	15073.	2618.	0.0	0.	HVA BIT	LATENT
730	RAW	2.8	37.2	52.2	10.6	0.7	13153.	0.0	0.0	0.0	0.0	59.0	14293.	2903.	0.0	0.	HVA BIT	MARGINAL
735	RAW	2.4	36.2	47.8	15.9	0.7	12414.	0.0	0.0	0.0	0.0	57.9	14440.	2597.	0.0	0.	HVA BIT	LATENT
739	RAW	3.1	37.2	52.4	10.4	0.5	13120.	4.9	73.7	1.5	9.0	59.1	14196.	2500.	3.5	0.	HVA BIT	MARGINAL
741	RAW	1.9	31.2	49.7	19.2	0.6	12164.	4.7	70.8	1.2	6.4	62.8	14877.	2864.	3.0	50.	HVA BIT	LATENT
742	RAW	1.7	32.1	52.3	15.6	0.7	12725.	4.6	66.9	1.2	6.7	63.1	14892.	2909.	2.7	50.	HVA BIT	LATENT
747	RAW	3.4	32.2	56.1	11.7	0.7	13217.	4.9	74.7	1.5	7.4	64.4	14451.	2910.	1.5	50.	HVA BIT	MARGINAL
751	RAW	2.5	32.8	52.1	15.1	0.6	12668.	4.8	73.5	1.5	6.8	62.4	14606.	2561.	6.3	58.	HVA BIT	LATENT
751	WASH	5.5	33.8	53.2	13.0	0.6	13145.	0.0	0.0	0.0	0.0	62.1	14254.	2475.	0.0	0.	HVA BIT	LATENT
763	RAW	2.3	36.0	52.7	11.2	0.7	13200.	0.0	0.0	0.0	0.0	60.2	14541.	2807.	0.0	0.	HVA BIT	MARGINAL
764	RAW	1.9	35.2	54.2	10.6	0.6	13452.	5.1	77.7	1.5	6.7	61.3	14774.	2614.	0.0	0.	HVA BIT	MARGINAL

AVERAGE COALBED ANALYSES FOR STATE: 8 COLORADO

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
799	RAW	2.5	34.5	52.6	12.8	0.6	13006.	4.9	74.1	1.4	6.6	61.2	14574.	2723.	4.4	56.	HVA BIT	LATENT
970	RAW	1.7	34.1	48.7	17.2	0.7	12442.	4.9	70.0	1.2	6.7	60.0	14860.	2903.	0.0	0.	HVA BIT	LATENT
COUNTY:	77	MESA																
727	RAW	8.8	39.6	51.1	9.3	0.8	12906.	5.2	73.6	1.9	10.3	57.0	12864.	2565.	1.3	47.	HVC BIT	MARGINAL
770	RAW	7.9	38.5	50.9	10.7	0.7	12693.	4.9	71.9	1.5	10.6	57.6	13000.	2829.	1.2	53.	HVC BIT	MARGINAL
799	RAW	8.8	40.0	52.2	7.8	0.9	13216.	5.2	75.3	1.8	10.0	57.1	12949.	2369.	2.2	49.	HVC BIT	PREMIUM
COUNTY:	81	MOFFAT																
769	RAW	11.3	42.7	53.5	3.8	0.3	13144.	0.0	0.0	0.0	0.0	55.9	12066.	2494.	0.0	55.	HVC BIT	PREMIUM
799	RAW	14.8	38.9	54.5	6.7	0.4	12482.	5.1	72.8	1.6	14.3	58.8	11297.	2397.	0.0	54.	HVC BIT	PREMIUM
COUNTY:	83	MONTEZUMA																
799	RAW	5.8	36.3	54.9	8.7	0.7	13432.	5.2	78.1	1.4	9.1	60.8	13795.	2884.	1.3	58.	HVB BIT	MARGINAL
COUNTY:	85	MONTROSE																
799	RAW	5.7	33.7	56.4	10.0	0.7	13047.	0.0	0.0	0.0	0.0	63.3	13599.	2910.	1.0	53.	HVB BIT	MARGINAL
COUNTY:	97	PITKINS																
704	RAW	3.5	30.3	55.6	14.1	1.2	13300.	4.9	72.8	1.9	5.1	65.9	14867.	2870.	8.0	83.	HVA BIT	LATENT
705	RAW	2.6	30.8	60.3	8.9	1.0	14110.	5.2	76.5	2.0	6.4	67.0	15020.	2500.	7.0	89.	HVA BIT	MARGINAL
718	RAW	3.0	33.7	58.5	7.9	0.7	14165.	5.1	79.0	1.7	5.4	64.1	14889.	2430.	7.5	70.	HVA BIT	PREMIUM
759	RAW	3.3	38.1	53.6	8.3	0.5	13467.	5.2	76.3	1.8	8.2	59.0	14180.	2703.	3.0	52.	HVA BIT	MARGINAL
799	RAW	4.6	23.0	68.1	9.0	0.7	14355.	4.8	81.0	1.9	2.4	75.5	15000.	2297.	9.0	110.	MV BIT	MARGINA
974	RAW	4.8	30.3	56.8	12.9	0.9	13330.	5.0	74.6	1.8	4.8	66.2	14502.	2620.	9.0	0.	HVA BIT	LATENT
975	RAW	3.1	29.5	58.2	12.3	1.1	13640.	0.0	0.0	0.0	0.0	67.4	15008.	2470.	8.0	86.	HVA BIT	LATENT
COUNTY:	103	RIO BLANCO																
799	RAW	11.9	40.8	52.3	6.8	0.5	12723.	5.0	73.1	1.5	14.3	56.6	11926.	2732.	0.0	57.	HVC BIT	PREMIUM

AVERAGE COALBED ANALYSES FOR STATE: 8 COLORADO

BED	TYPE ANAL	MOI REC	PROXIMATE DRY VOL MATT	PROXIMATE DRY FIXD CARB	PROXIMATE DRY ASH	DRY SUL	DRY BTU	ULTIMATE DRY HYD	ULTIMATE DRY CAR	ULTIMATE DRY NIT	ULTIMATE DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
	COUNTY:	107	ROUTT															
738	RAW	10.2	40.7	48.1	11.3	0.5	12055.	5.1	70.8	1.4	13.0	54.8	12086.	2764.	0.0	0.	HVC BIT	MARGINAL
748	RAW	8.8	40.3	52.6	7.1	0.6	12962.	5.2	74.8	1.6	12.5	57.1	12638.	2528.	1.3	48.	HVC BIT	PREMIUM
748	WASH	8.8	41.3	52.7	6.1	0.6	13175.	5.1	73.0	1.6	11.9	56.5	12712.	2504.	0.0	0.	HVC BIT	PREMIUM
750	RAW	9.8	40.4	51.7	7.9	0.6	12631.	5.0	71.4	1.8	13.0	56.6	12268.	2760.	0.0	44.	HVC BIT	PREMIUM
750	WASH	9.8	40.2	52.6	7.2	0.5	12820.	0.0	0.0	0.0	0.0	57.1	12385.	2902.	0.0	0.	HVC BIT	PREMIUM
760	RAW	9.3	43.8	51.6	4.6	1.8	13157.	0.0	0.0	0.0	0.0	54.6	12291.	2129.	1.3	51.	HVC BIT	LATENT
760	WASH	10.7	45.2	51.1	3.7	2.3	13310.	0.0	0.0	0.0	0.0	53.6	12078.	2080.	0.0	0.	HVC BIT	LATENT
762	RAW	14.4	37.5	56.0	6.5	0.4	12680.	5.0	73.7	2.0	13.3	60.3	11504.	2367.	0.0	0.	HVC BIT	PREMIUM
799	RAW	11.3	40.1	53.0	6.9	0.8	12809.	5.1	73.5	1.8	12.7	57.5	12082.	2342.	1.5	54.	HVC BIT	PREMIUM
	COUNTY:	113	SAN MIGUEL															
799	RAW	2.8	36.1	55.7	8.2	1.5	13790.	0.0	0.0	0.0	0.0	61.4	14460.	2520.	2.0	0.	HVA BIT	MARGINAL
	COUNTY:	123	WELD															
799	RAW	21.9	38.8	55.0	6.2	0.4	12463.	4.7	72.6	1.6	14.5	59.0	10233.	2094.	0.0	48.	SUBBIT B	

AVERAGE COALBED ANALYSES FOR STATE: 13 GEORGIA

BED	TYPE ANAL	MOI REC	PROXIMATE DRY VOL MATT	PROXIMATE DRY FIXD CARB	PROXIMATE DRY ASH	DRY SUL	DRY BTU	ULTIMATE DRY HYD	ULTIMATE DRY CAR	ULTIMATE DRY NIT	ULTIMATE DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER MGI	RANK	GRADE
COUNTY:	83	DADE																
258	RAW	3.4	19.8	62.6	17.6	1.7	12690.	0.0	0.0	0.0	0.0	77.9	14752.	2850.	0.0	0.	MV BIT	LATENT
272	RAW	2.7	21.0	75.0	4.0	0.9	15050.	0.0	0.0	0.0	0.0	78.7	15164.	2470.	0.0	0.	LV BIT	PREMIUM
320	RAW	3.2	27.9	65.9	6.3	2.2	14605.	0.0	0.0	0.0	0.0	71.2	14841.	2205.	0.0	0.	MV BIT	LATENT
327	RAW	3.1	24.8	63.5	11.8	0.8	13590.	0.0	0.0	0.0	0.0	73.0	14899.	2707.	0.0	0.	MV BIT	MARGINAL
335	RAW	4.4	24.3	65.9	9.8	0.9	13840.	0.0	0.0	0.0	0.0	74.0	14596.	2750.	0.0	0.	MV BIT	MARGINAL
365	RAW	4.8	27.8	67.2	5.0	1.6	14630.	0.0	0.0	0.0	0.0	71.4	14474.	2030.	0.0	0.	MV BIT	MARGINAL
COUNTY:	295	WALKER																
263	RAW	3.4	20.6	72.8	6.6	1.0	14640.	0.0	0.0	0.0	0.0	78.7	15050.	2550.	0.0	0.	LV BIT	PREMIUM
267	RAW	3.9	19.8	69.7	10.5	1.0	13940.	0.0	0.0	0.0	0.0	78.9	14884.	2555.	0.0	0.	LV BIT	MARGINAL
799	RAW	2.6	21.3	55.8	22.9	1.2	11830.	0.0	0.0	0.0	0.0	74.5	14975.	2690.	0.0	0.	MV BIT	LATENT
941	RAW	3.6	20.3	61.2	18.4	3.0	12481.	3.9	71.1	1.3	1.8	77.5	14415.	2455.	0.0	0.	MV BIT	LATENT
942	RAW	1.8	20.9	74.0	5.1	0.8	14869.	0.0	0.0	0.0	0.0	78.5	15318.	0.	0.0	0.	LV BIT	PREMIUM

AVERAGE COALBED ANALYSES FOR STATE: 16 IDAHO

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
	COUNTY:	81 TETON																
608	RAW	5.0	42.7	51.0	6.3	0.4	13470.	0.0	0.0	0.0	0.0	54.8	13630.	2100.	2.5	0.	HVB BIT	PREMIUM
799	RAW	6.4	41.4	52.1	6.5	1.2	13280.	5.4	75.9	1.5	11.0	56.2	13149.	2199.	0.0	0.	HVB BIT	MARGINAL

AVERAGE COALBED ANALYSES FOR STATE: 17 ILLINOIS

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
COUNTY:	5	BOND																
484	RAW	12.3	37.9	49.0	13.1	4.2	12280.	4.7	69.2	1.2	8.5	57.9	11812.	2032.	0.0	0.	HVC	BIT LATENT
COUNTY:	11	BUREAU																
480	RAW	17.7	38.7	44.4	16.9	4.1	11780.	4.8	65.0	0.9	8.3	55.1	10971.	2100.	0.0	0.	HVC	BIT LATENT
496	RAW	15.1	39.8	46.2	14.0	4.2	12384.	5.0	71.1	1.2	7.2	55.2	11598.	1992.	0.0	0.	HVC	BIT LATENT
COUNTY:	13	CALHOUN																
496	RAW	10.6	42.7	44.3	13.0	5.6	12560.	0.0	0.0	0.0	0.0	52.4	12171.	0.	0.0	0.	HVC	BIT LATENT
COUNTY:	21	CHRISTIAN																
484	RAW	13.1	40.7	45.4	13.9	4.9	12130.	5.0	69.2	1.3	8.3	54.3	11571.	2005.	4.2	60.	HVC	BIT LATENT
484	WASH	14.7	42.0	46.5	11.5	4.4	12470.	4.9	69.0	1.2	9.7	53.9	11415.	2016.	0.0	0.	HVC	BIT LATENT
COUNTY:	27	CLINTON																
484	RAW	11.7	38.8	47.6	13.6	4.3	12114.	4.6	67.7	1.2	9.0	56.6	11781.	2033.	2.7	64.	HVC	BIT LATENT
COUNTY:	41	DOUGLAS																
484	RAW	13.3	42.9	47.9	9.2	2.5	13132.	0.0	0.0	0.0	0.0	53.6	12194.	2126.	3.8	56.	HVC	BIT LATENT
484	WASH	13.6	43.7	48.3	8.0	2.3	13404.	5.2	75.4	1.7	8.0	53.2	12258.	2134.	3.2	56.	HVC	BIT LATENT
COUNTY:	45	EDGAR																
484	RAW	14.8	41.3	47.3	11.4	3.3	12800.	0.0	0.0	0.0	0.0	54.5	11822.	0.	0.0	0.	HVC	BIT LATENT
COUNTY:	55	FRANKLIN																
484	RAW	8.5	36.0	53.7	10.3	1.2	12967.	4.9	73.7	1.6	9.4	60.6	13057.	2347.	3.7	57.	HVB	BIT MARGINAL
484	WASH	9.1	37.2	54.1	8.7	1.2	13209.	5.1	75.4	1.7	9.1	60.0	12978.	2371.	3.9	58.	HVC	BIT MARGINAL
COUNTY:	57	FULTON																
484	RAW	15.4	40.5	49.2	10.2	3.9	12842.	5.3	76.1	1.4	8.7	56.0	11565.	2092.	2.0	53.	HVC	BIT LATENT
484	WASH	15.3	40.9	50.6	8.5	2.9	13133.	0.0	0.0	0.0	0.0	56.2	11757.	2158.	4.7	0.	HVC	BIT LATENT
489	RAW	14.7	40.3	45.1	14.7	3.6	12151.	4.7	68.4	1.2	7.5	54.2	11582.	2014.	3.9	61.	HVC	BIT LATENT
489	WASH	15.4	41.4	46.9	11.8	3.4	12550.	4.7	68.3	1.2	8.8	54.3	11542.	2019.	4.1	64.	HVC	BIT LATENT
496	WASH	14.0	45.2	48.8	6.0	3.2	13661.	0.0	0.0	0.0	0.0	52.7	12113.	2017.	3.1	53.	HVC	BIT LATENT

AVERAGE COALBED ANALYSES FOR STATE: 17 ILLINOIS

BED	TYPE ANAL	MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
		********PROXIMATE********						********ULTIMATE********										
	COUNTY:	59	GALLATIN															
489	RAW	5.6	37.5	50.6	12.0	3.6	12953.	5.2	75.7	1.5	7.2	58.8	13441.	2091.	6.0	62.	HVB BIT	LATENT
	COUNTY:	63	GRUNDY															
480	RAW	14.2	41.7	45.6	12.7	4.7	10750.	0.0	0.0	0.0	0.0	53.6	9974.	2060.	0.0	0.	SUBBIT B	
496	RAW	15.1	40.9	48.9	10.2	3.5	12950.	5.2	73.1	1.2	8.3	55.5	11750.	1990.	0.0	0.	HVC BIT	LATENT
	COUNTY:	73	HENRY															
484	RAW	19.8	37.1	47.9	15.0	5.0	11980.	4.6	66.8	0.9	7.7	58.2	10545.	2080.	0.0	0.	HVC BIT	LATENT
484	WASH	18.2	43.3	48.6	8.1	3.1	12954.	0.0	0.0	0.0	0.0	53.8	11120.	2080.	4.2	65.	HVC BIT	LATENT
496	RAW	15.4	43.2	43.5	13.3	4.3	12090.	0.0	0.0	0.0	0.0	51.5	11186.	1980.	0.0	0.	HVC BIT	LATENT
496	WASH	16.3	44.5	44.4	11.2	4.1	12539.	5.0	70.6	1.2	9.8	51.1	11246.	1967.	0.0	0.	HVC BIT	LATENT
529	RAW	14.9	42.9	43.0	14.1	5.3	12360.	5.1	71.4	1.1	7.8	51.6	11498.	2063.	0.0	0.	HVC BIT	LATENT
	COUNTY:	77	JACKSON															
484	RAW	8.8	37.5	49.3	13.2	3.1	12428.	4.9	72.4	1.3	8.8	58.2	12650.	2180.	2.1	0.	HVC BIT	LATENT
484	WASH	8.2	38.3	51.5	10.2	2.7	12930.	5.0	74.5	1.4	8.4	58.4	12879.	2308.	5.2	55.	HVC BIT	LATENT
496	RAW	5.2	35.9	50.4	13.7	5.1	12650.	4.9	72.1	1.3	6.3	60.2	13261.	2085.	0.0	0.	HVB BIT	LATENT
529	RAW	8.9	34.8	56.5	8.7	1.2	13363.	5.0	78.4	1.6	8.5	62.6	13168.	2200.	0.0	0.	HVB BIT	MARGINAL
900	WASH	9.3	39.0	50.5	10.4	3.1	12909.	0.0	0.0	0.0	0.0	57.6	12666.	2101.	4.6	65.	HVC BIT	LATENT
	COUNTY:	81	JEFFERSON															
484	RAW	9.1	36.8	53.1	10.2	1.3	12975.	4.9	73.9	1.6	9.0	59.9	12938.	2387.	3.5	0.	HVC BIT	MARGINAL
484	WASH	10.4	37.7	53.3	8.9	1.2	13168.	5.0	74.1	1.7	9.2	59.2	12773.	2473.	4.4	59.	HVC BIT	MARGINAL
	COUNTY:	91	KANKAKEE															
001	WASH	15.1	44.3	48.1	7.6	2.9	13301.	0.0	0.0	0.0	0.0	52.9	11834.	2030.	2.7	50.	HVC BIT	LATENT
496	RAW	15.1	44.2	49.1	6.7	3.2	13415.	0.0	0.0	0.0	0.0	53.5	11815.	1945.	0.0	0.	HVC BIT	LATENT
496	WASH	16.3	43.9	50.1	6.0	2.8	13587.	0.0	0.0	0.0	0.0	54.0	11749.	1947.	0.0	0.	HVC BIT	LATENT
910	WASH	16.3	43.9	48.1	8.0	2.8	13276.	0.0	0.0	0.0	0.0	53.1	11698.	2078.	3.5	0.	HVC BIT	LATENT

AVERAGE COALBED ANALYSES FOR STATE: 17 ILLINOIS

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
922	WASH	16.0	44.3	48.1	7.6	3.0	13349.	0.0	0.0	0.0	0.0	52.9	11743.	2016.	3.5	60.	HVC BIT	LATENT
COUNTY:	95	KNOX																
484	RAW	17.6	39.8	49.3	10.9	3.5	12510.	4.8	69.5	1.0	8.0	56.5	11064.	2070.	1.0	56.	HVC BIT	LATENT
484	WASH	19.0	42.4	49.1	8.5	3.1	12882.	0.0	0.0	0.0	0.0	54.5	10975.	2082.	3.5	63.	HVC BIT	LATENT
496	RAW	13.9	45.3	45.1	9.7	3.1	13015.	0.0	0.0	0.0	0.0	50.8	11977.	0.	0.0	0.	HVC BIT	LATENT
529	RAW	14.7	43.7	45.8	10.5	5.2	12932.	5.4	75.0	1.3	7.9	52.5	11652.	2020.	0.0	0.	HVC BIT	LATENT
COUNTY:	99	LA SALLE																
480	RAW	13.6	47.3	43.7	9.0	4.3	13130.	0.0	0.0	0.0	0.0	49.0	11924.	0.	0.0	0.	HVC BIT	LATENT
496	RAW	11.7	42.1	45.0	13.0	6.3	12420.	5.0	69.9	1.1	7.4	53.3	11789.	1997.	0.0	0.	HVC BIT	LATENT
COUNTY:	105	LIVINGSTON																
489	RAW	12.5	38.7	44.7	16.6	3.7	12160.	4.7	67.5	1.1	6.4	55.2	12171.	2030.	0.0	0.	HVC BIT	LATENT
COUNTY:	107	LOGAN																
489	RAW	11.9	41.5	45.0	13.5	4.4	12176.	4.9	70.4	1.3	8.3	53.4	11796.	1925.	3.5	62.	HVC BIT	LATENT
COUNTY:	115	MACON																
489	RAW	12.9	39.8	47.0	13.2	3.9	12280.	5.0	69.0	1.4	8.7	55.5	11775.	1977.	0.0	0.	HVC BIT	LATENT
COUNTY:	117	MACOUPIN																
484	RAW	12.9	41.4	46.2	12.4	4.9	12266.	5.0	68.6	1.2	9.6	54.1	11546.	2019.	4.1	66.	HVC BIT	LATENT
484	WASH	16.1	42.7	46.9	10.4	4.2	12615.	5.0	71.1	1.2	9.0	53.5	11247.	2081.	4.6	0.	HVC BIT	LATENT
COUNTY:	119	MADISON																
484	RAW	11.6	41.6	44.8	13.5	4.5	12160.	5.0	69.4	1.2	8.8	53.3	11816.	2037.	3.8	57.	HVC BIT	LATENT
484	WASH	12.9	43.9	45.9	10.2	4.0	12706.	5.1	70.1	1.2	10.1	52.2	11806.	2086.	4.3	55.	HVC BIT	LATENT
496	RAW	12.5	40.7	47.0	12.3	6.2	12280.	0.0	0.0	0.0	0.0	55.3	11464.	0.	0.0	0.	HVC BIT	LATENT
COUNTY:	121	MARION																
484	RAW	10.1	40.3	45.8	13.9	4.3	12312.	5.1	68.2	1.3	8.2	54.7	12267.	2038.	4.8	62.	HVC BIT	LATENT
484	WASH	10.9	40.0	47.2	12.8	3.7	12508.	0.0	0.0	0.0	0.0	55.4	12260.	2085.	0.0	0.	HVC BIT	LATENT
COUNTY:	123	MARSHALL																
480	RAW	14.6	39.3	43.6	17.2	4.1	11920.	4.6	65.7	1.2	7.4	54.2	11632.	2040.	0.0	0.	HVC BIT	LATENT

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BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
	COUNTY: 129 MENARD																	
489	RAW	14.5	40.6	47.1	12.3	3.4	12690.	5.0	70.4	1.1	7.8	54.9	11862.	2010.	0.0	0.	HVC BIT	LATENT
	COUNTY: 135 MONTGOMERY																	
484	RAW	12.9	40.7	46.6	12.7	5.0	12238.	4.8	68.6	1.3	8.7	54.9	11546.	1980.	3.5	57.	HVC BIT	LATENT
484	WASH	14.0	43.3	45.7	11.0	4.4	12495.	4.9	69.8	1.4	9.4	52.6	11493.	2031.	4.2	0.	HVC BIT	LATENT
496	RAW	13.2	43.3	47.2	9.6	4.4	13105.	0.0	0.0	0.0	0.0	53.3	12012.	0.	0.0	0.	HVC BIT	LATENT
	COUNTY: 137 MORGAN																	
496	RAW	13.5	41.7	40.6	17.7	4.8	11870.	0.0	0.0	0.0	0.0	51.0	11732.	0.	0.0	0.	HVC BIT	LATENT
	COUNTY: 143 PEORIA																	
484	RAW	14.4	40.0	42.1	17.9	4.4	11330.	0.0	0.0	0.0	0.0	53.0	11120.	2180.	3.0	59.	HVC BIT	LATENT
484	WASH	18.0	42.2	49.7	8.1	3.0	13111.	5.1	73.7	1.4	9.1	54.9	11283.	2175.	3.9	62.	HVC BIT	LATENT
489	RAW	14.4	40.0	45.6	14.4	3.5	12322.	4.8	69.1	1.3	7.8	54.6	11760.	1999.	0.0	0.	HVC BIT	LATENT
496	RAW	12.3	46.0	44.5	9.5	4.5	13076.	0.0	0.0	0.0	0.0	50.2	12107.	0.	0.0	0.	HVC BIT	LATENT
496	WASH	13.1	47.8	45.4	6.7	3.5	13587.	0.0	0.0	0.0	0.0	49.5	12222.	2041.	2.9	52.	HVC BIT	LATENT
	COUNTY: 145 PERRY																	
484	RAW	9.9	38.6	49.3	12.1	3.3	12478.	4.8	70.7	1.4	9.4	57.4	12354.	2100.	3.8	57.	HVC BIT	LATENT
484	WASH	10.7	39.8	50.2	10.0	2.8	12817.	4.9	72.0	1.4	9.8	56.8	12350.	2167.	4.0	57.	HVC BIT	LATENT
489	RAW	7.9	40.4	47.4	12.3	4.5	12375.	4.8	70.7	1.3	9.1	55.4	12417.	2050.	3.0	60.	HVC BIT	LATENT
	COUNTY: 155 PUTNAM																	
496	RAW	15.1	44.2	46.1	9.7	4.0	12895.	0.0	0.0	0.0	0.0	52.1	11604.	0.	0.0	0.	HVC BIT	LATENT
	COUNTY: 157 RANDOLPH																	
484	RAW	9.9	39.3	46.3	14.5	4.0	12037.	5.1	71.2	1.3	9.6	55.6	12127.	2083.	3.7	57.	HVC BIT	LATENT
484	WASH	10.8	41.3	47.9	10.7	3.3	12639.	5.0	69.8	1.2	9.4	54.8	12194.	2124.	3.7	61.	HVC BIT	LATENT
489	RAW	8.1	42.9	44.1	13.0	5.7	12380.	0.0	0.0	0.0	0.0	52.2	12353.	2020.	4.0	0.	HVC BIT	LATENT
489	WASH	9.1	43.1	44.7	12.2	4.0	12530.	0.0	0.0	0.0	0.0	52.1	12450.	2120.	3.5	57.	HVC BIT	LATENT
	COUNTY: 163 ST. CLAIR																	
484	RAW	10.0	40.2	44.9	14.9	4.5	12035.	4.9	68.8	1.2	8.2	54.3	12098.	2055.	4.4	59.	HVC BIT	LATENT
484	WASH	11.4	43.2	46.0	10.8	3.8	12712.	5.1	70.6	1.2	9.2	52.7	12129.	2120.	3.9	60.	HVC BIT	LATENT

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BED	TYPE ANAL	MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
		********PROXIMATE********						********ULTIMATE********										
COUNTY:	165	SALINE																
484	RAW	6.8	37.4	50.8	11.9	3.7	12778.	0.0	0.0	0.0	0.0	59.0	13052.	2077.	0.0	0.	HVB BIT	LATENT
484	WASH	7.2	38.7	52.0	9.3	2.8	13282.	0.0	0.0	0.0	0.0	58.4	13242.	2217.	5.5	0.	HVB BIT	LATENT
489	RAW	6.5	36.3	53.7	10.1	2.4	13151.	4.9	74.2	1.6	7.4	60.7	13370.	2115.	5.7	61.	HVB BIT	LATENT
489	WASH	7.7	36.9	54.7	8.4	2.0	13447.	5.1	75.8	1.7	7.4	60.6	13280.	2132.	5.4	61.	HVB BIT	LATENT
506	RAW	3.3	32.5	54.8	12.7	4.5	13120.	0.0	0.0	0.0	0.0	64.6	13990.	2130.	6.0	65.	HVB BIT	LATENT
908	WASH	5.8	40.4	50.9	8.7	3.4	13511.	0.0	0.0	0.0	0.0	56.8	13524.	2094.	6.0	55.	HVB BIT	LATENT
COUNTY:	167	SANGAMON																
484	RAW	13.2	41.6	46.6	11.8	4.6	12410.	4.9	68.6	1.3	8.8	54.2	11601.	2010.	0.0	0.	HVC BIT	LATENT
489	RAW	13.7	39.7	46.1	14.2	4.6	12135.	4.9	68.2	1.3	8.6	55.3	11548.	1955.	4.4	64.	HVC BIT	LATENT
COUNTY:	169	SCHUYLER																
489	RAW	12.5	39.6	45.1	15.2	5.1	12161.	0.0	0.0	0.0	0.0	55.0	11840.	2027.	0.0	0.	HVC BIT	LATENT
489	WASH	13.8	40.7	46.7	12.6	4.0	12587.	0.0	0.0	0.0	0.0	54.8	11847.	2033.	4.5	67.	HVC BIT	LATENT
COUNTY:	171	SCOTT																
496	RAW	11.7	47.8	42.0	10.2	3.2	12970.	0.0	0.0	0.0	0.0	47.6	12318.	0.	0.0	0.	HVC BIT	LATENT
COUNTY:	173	SHELBY																
489	RAW	11.2	39.7	48.2	12.1	4.0	12470.	5.0	69.0	1.4	8.5	56.2	12060.	1840.	0.0	0.	HVC BIT	LATENT
COUNTY:	175	STARK																
484	RAW	16.6	38.4	47.2	14.4	4.6	11990.	4.9	68.8	1.0	8.0	56.8	10999.	2045.	3.5	58.	HVC BIT	LATENT
484	WASH	17.9	42.7	49.8	7.5	3.0	13126.	5.0	73.0	1.3	9.8	54.7	11241.	2058.	3.3	59.	HVC BIT	LATENT
COUNTY:	179	TAZEWELL																
489	RAW	13.9	39.3	49.1	11.6	3.5	12625.	4.9	70.6	1.4	8.2	56.8	11796.	1630.	0.0	0.	HVC BIT	LATENT
COUNTY:	183	VERMILION																
480	RAW	12.0	42.4	44.9	12.6	3.7	12596.	5.1	70.9	1.3	8.2	52.6	12156.	2040.	0.0	0.	HVC BIT	LATENT
480	WASH	12.4	45.8	45.2	8.9	2.9	13148.	0.0	0.0	0.0	0.0	50.5	12252.	2073.	3.4	58.	HVC BIT	LATENT
484	RAW	13.7	40.9	48.5	10.6	2.5	12768.	5.1	72.4	1.4	9.1	55.2	11961.	2133.	0.0	0.	HVC BIT	LATENT
484	WASH	14.2	42.0	46.6	11.4	2.7	12666.	0.0	0.0	0.0	0.0	53.5	11850.	2172.	4.0	58.	HVC BIT	LATENT

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BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER MGI	RANK	GRADE
	COUNTY: 189 WASHINGTON																	
484	RAW	9.8	39.7	45.9	14.5	4.5	12099.	4.8	67.9	1.3	8.4	55.2	12161.	2031.	4.5	59.	HVC BIT	LATENT
	COUNTY: 193 WHITE																	
484	RAW	8.5	38.7	51.5	9.8	3.1	13030.	4.9	72.8	1.5	7.9	58.2	12822.	2060.	0.0	0.	HVC BIT	LATENT
	COUNTY: 197 WILL																	
496	RAW	16.4	40.6	51.2	8.2	3.1	13198.	5.5	74.9	1.4	9.9	56.7	11594.	2009.	2.5	0.	HVC BIT	LATENT
496	WASH	19.7	40.0	48.9	11.1	3.8	12745.	0.0	0.0	0.0	0.0	56.2	10960.	1975.	0.0	0.	HVC BIT	LATENT
	COUNTY: 199 WILLIAMSON																	
001	WASH	6.7	38.4	50.9	10.7	3.0	12976.	0.0	0.0	0.0	0.0	58.1	13182.	2112.	4.2	0.	HVB BIT	LATENT
484	RAW	8.1	35.7	53.6	10.7	1.8	12900.	4.9	73.0	1.5	8.4	61.0	13040.	2324.	4.2	56.	HVB BIT	MARGINAL
484	WASH	7.6	38.4	52.7	8.9	2.2	13243.	5.0	75.5	1.7	8.9	58.7	13163.	2256.	4.5	58.	HVB BIT	LATENT
489	RAW	6.4	36.9	50.7	12.4	3.3	12691.	5.0	73.0	1.6	7.9	59.2	13148.	2057.	4.0	0.	HVB BIT	LATENT
489	WASH	7.9	37.2	53.0	9.8	2.5	13183.	0.0	0.0	0.0	0.0	59.8	13133.	2067.	5.0	59.	HVB BIT	LATENT
506	WASH	4.3	39.8	49.0	11.2	3.2	13150.	0.0	0.0	0.0	0.0	56.3	13796.	2100.	6.5	52.	HVB BIT	LATENT
900	WASH	9.0	38.4	51.2	10.5	3.3	13035.	0.0	0.0	0.0	0.0	58.3	12821.	2030.	5.5	63.	HVC BIT	LATENT
901	WASH	5.1	41.2	49.2	9.6	3.6	13405.	0.0	0.0	0.0	0.0	55.5	13644.	2052.	6.0	56.	HVB BIT	LATENT
	COUNTY: 203 WOODFORD																	
496	RAW	14.3	39.3	51.7	9.0	1.7	13304.	5.2	76.7	1.4	9.0	57.6	12252.	2116.	0.0	0.	HVC BIT	MARGINAL

AVERAGE COALBED ANALYSES FOR STATE: 18 INDIANA

BED	TYPE ANAL	MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
		********PROXIMATE********						********ULTIMATE********										
	COUNTY: 21 CLAY																	
489	RAW	11.9	43.3	46.3	10.4	3.8	12993.	0.0	0.0	0.0	0.0	52.7	12268.	2250.	0.0	0.	HVC BIT	LATENT
493	RAW	14.2	38.1	50.0	12.0	1.9	12780.	0.0	0.0	0.0	0.0	57.8	12130.	2665.	0.0	0.	HVC BIT	LATENT
502	RAW	10.2	44.8	44.5	10.7	4.6	12838.	0.0	0.0	0.0	0.0	51.0	12328.	2072.	2.0	0.	HVC BIT	LATENT
502	WASH	11.9	45.7	44.5	9.8	4.5	13012.	0.0	0.0	0.0	0.0	50.4	12132.	2090.	3.8	61.	HVC BIT	LATENT
537	RAW	16.3	37.9	53.4	8.7	1.5	13373.	5.4	77.5	1.4	8.7	59.2	11995.	2569.	1.0	0.	HVC BIT	MARGINAL
990	RAW	13.1	43.0	46.3	10.7	3.8	12930.	5.3	72.2	1.3	8.3	53.0	12068.	2133.	5.5	60.	HVC BIT	LATENT
	COUNTY: 27 DAVIESS																	
799	WASH	13.7	42.8	48.8	8.4	2.9	13410.	0.0	0.0	0.0	0.0	54.2	12247.	2190.	4.2	0.	HVC BIT	LATENT
	COUNTY: 45 FOUNTAIN																	
529	RAW	13.1	45.0	44.1	10.9	3.6	12998.	0.0	0.0	0.0	0.0	50.5	12175.	2060.	4.0	0.	HVC BIT	LATENT
	COUNTY: 51 GIBSON																	
483	RAW	16.2	36.4	46.0	17.6	2.0	11390.	0.0	0.0	0.0	0.0	57.2	11132.	0.	0.0	0.	HVC BIT	LATENT
489	RAW	10.5	38.9	50.7	10.4	3.4	12937.	0.0	0.0	0.0	0.0	57.7	12472.	2037.	4.1	0.	HVC BIT	LATENT
489	WASH	11.3	40.7	51.6	7.7	2.4	13419.	0.0	0.0	0.0	0.0	56.7	12568.	2105.	3.6	0.	HVC BIT	LATENT
	COUNTY: 55 GREENE																	
001	WASH	13.0	40.7	47.8	11.6	3.2	12595.	0.0	0.0	0.0	0.0	55.2	11936.	2140.	3.5	0.	HVC BIT	LATENT
480	RAW	14.3	39.7	48.9	11.4	1.5	12840.	0.0	0.0	0.0	0.0	56.0	12134.	2570.	0.0	0.	HVC BIT	MARGINAL
480	WASH	15.4	39.7	49.9	10.4	1.4	13020.	0.0	0.0	0.0	0.0	56.4	12021.	2513.	0.0	0.	HVC BIT	MARGINAL
483	RAW	14.4	38.7	50.0	11.3	2.4	12781.	0.0	0.0	0.0	0.0	57.4	11951.	2116.	0.0	0.	HVC BIT	LATENT
483	WASH	15.1	39.6	51.0	9.4	2.2	13112.	5.0	71.4	1.5	8.3	57.2	11935.	2112.	3.0	54.	HVC BIT	LATENT
489	RAW	10.9	40.6	48.8	10.6	3.5	12900.	0.0	0.0	0.0	0.0	55.7	12389.	2090.	4.0	51.	HVC BIT	LATENT
489	WASH	12.0	42.8	47.2	10.0	3.3	13022.	5.0	72.6	1.4	8.5	53.4	12291.	2196.	3.6	56.	HVC BIT	LATENT
490	RAW	10.9	45.0	46.4	8.6	3.0	13457.	0.0	0.0	0.0	0.0	51.6	12714.	2343.	0.0	0.	HVC BIT	LATENT
493	RAW	14.1	40.2	49.1	10.7	2.0	13022.	5.2	74.9	1.8	9.1	55.9	12188.	2422.	0.0	0.	HVC BIT	LATENT
493	WASH	12.1	42.9	49.7	7.3	1.4	13590.	0.0	0.0	0.0	0.0	54.2	12684.	2710.	3.5	52.	HVC BIT	MARGINAL
502	RAW	10.6	43.0	47.0	10.0	4.6	13042.	0.0	0.0	0.0	0.0	53.4	12377.	2250.	3.0	53.	HVC BIT	LATENT

AVERAGE COALBED ANALYSES FOR STATE: 18 INDIANA

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
502	WASH	11.8	43.6	45.7	10.7	4.7	12850.	5.1	70.4	1.4	7.7	52.4	12082.	2030.	3.5	54.	HVC BIT	LATENT
COUNTY:	83	KNOX																
483	RAW	12.7	38.7	48.7	12.6	3.1	12580.	4.9	70.2	1.5	8.2	56.9	12100.	2224.	0.0	0.	HVC BIT	LATENT
483	WASH	11.7	41.3	47.6	11.1	2.8	12828.	0.0	0.0	0.0	0.0	54.6	12341.	2242.	4.2	60.	HVC BIT	LATENT
489	RAW	10.2	40.8	47.1	12.1	4.7	12694.	0.0	0.0	0.0	0.0	55.0	12352.	2061.	0.0	0.	HVC BIT	LATENT
489	WASH	9.3	42.7	48.0	9.3	3.4	13153.	0.0	0.0	0.0	0.0	53.9	12729.	2179.	4.5	63.	HVC BIT	LATENT
COUNTY:	119	OWEN																
537	RAW	14.5	39.8	53.9	6.2	1.3	13782.	0.0	0.0	0.0	0.0	58.1	12365.	2693.	4.0	49.	HVC BIT	MARGINAL
545	RAW	13.0	40.7	49.1	10.2	4.2	13283.	0.0	0.0	0.0	0.0	56.0	12297.	2090.	0.0	0.	HVC BIT	LATENT
COUNTY:	125	PIKE																
001	RAW	8.9	43.0	47.2	9.8	3.9	12958.	0.0	0.0	0.0	0.0	53.4	12590.	2042.	4.6	0.	HVC BIT	LATENT
001	WASH	7.9	44.6	46.1	9.4	3.9	13087.	0.0	0.0	0.0	0.0	51.8	12813.	2075.	0.0	0.	HVC BIT	LATENT
483	RAW	15.0	39.7	50.9	9.4	2.1	13297.	0.0	0.0	0.0	0.0	57.0	12147.	2325.	4.5	0.	HVC BIT	LATENT
489	RAW	10.2	41.6	48.2	10.2	3.7	12959.	0.0	0.0	0.0	0.0	54.8	12490.	2167.	4.1	57.	HVC BIT	LATENT
489	WASH	10.4	43.4	47.6	9.0	3.7	13125.	0.0	0.0	0.0	0.0	53.3	12452.	2127.	3.9	54.	HVC BIT	LATENT
992	RAW	12.3	42.9	46.5	10.6	4.7	12867.	0.0	0.0	0.0	0.0	53.3	12015.	2079.	4.5	52.	HVC BIT	LATENT
992	WASH	10.8	44.4	46.5	9.1	3.9	13146.	0.0	0.0	0.0	0.0	52.1	12397.	2092.	3.8	58.	HVC BIT	LATENT
COUNTY:	147	SPENCER																
529	RAW	10.8	45.3	44.8	9.9	5.9	13010.	0.0	0.0	0.0	0.0	51.0	12149.	2050.	2.5	0.	HVC BIT	LATENT
COUNTY:	153	SULLIVAN																
001	WASH	13.4	40.7	48.5	10.8	1.9	12906.	0.0	0.0	0.0	0.0	55.3	12209.	2350.	3.6	0.	HVC BIT	LATENT
480	RAW	13.7	38.0	51.7	10.4	1.0	12937.	0.0	0.0	0.0	0.0	58.4	12253.	2610.	4.7	52.	HVC BIT	MARGINAL
480	WASH	15.9	39.0	51.1	9.9	0.8	13087.	0.0	0.0	0.0	0.0	57.4	12013.	2639.	4.2	59.	HVC BIT	MARGINAL
483	RAW	12.4	40.8	47.7	11.4	2.7	12738.	5.2	74.2	1.6	8.5	54.9	12197.	2139.	3.4	54.	HVC BIT	LATENT
483	WASH	13.7	41.4	49.2	9.3	2.5	13163.	5.2	73.6	1.5	8.1	55.2	12171.	2122.	3.9	62.	HVC BIT	LATENT
489	RAW	14.0	38.1	53.7	8.2	1.2	13337.	5.2	76.7	1.7	9.4	59.1	12293.	2494.	0.0	0.	HVC BIT	MARGINAL
489	WASH	13.1	41.2	48.1	10.7	2.7	12945.	5.2	72.2	1.3	8.5	54.9	12198.	2413.	4.2	56.	HVC BIT	LATENT
493	WASH	11.4	42.7	48.1	9.2	2.2	13333.	0.0	0.0	0.0	0.0	53.7	12697.	2420.	0.0	0.	HVC BIT	LATENT

AVERAGE COALBED ANALYSES FOR STATE: 18 INDIANA

BED	TYPE ANAL	MOI REC	PROXIMATE DRY VOL MATT	PROXIMATE DRY FIXD CARB	PROXIMATE DRY ASH	DRY SUL	DRY BTU	ULTIMATE DRY HYD	ULTIMATE DRY CAR	ULTIMATE DRY NIT	ULTIMATE DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
COUNTY: 163 VANDERBURGH																		
489	RAW	10.3	38.5	48.1	13.4	3.5	12360.	0.0	0.0	0.0	0.0	56.9	12308.	2066.	0.0	0.	HVC BIT	LATENT
COUNTY: 165 VERMILLION																		
483	RAW	11.9	42.6	46.2	11.2	3.0	12820.	0.0	0.0	0.0	0.0	53.1	12293.	2070.	4.5	57.	HVC BIT	LATENT
483	WASH	14.7	42.6	47.0	10.4	2.5	13009.	4.9	67.2	1.4	7.9	53.4	12001.	2145.	3.5	53.	HVC BIT	LATENT
489	RAW	11.0	43.7	43.7	12.6	4.3	12578.	5.2	71.0	1.3	7.9	51.2	12231.	1992.	4.7	66.	HVC BIT	LATENT
493	RAW	12.7	38.1	51.6	10.3	0.9	13080.	0.0	0.0	0.0	0.0	58.3	12546.	2632.	0.0	0.	HVC BIT	MARGINAL
COUNTY: 167 VIGO																		
480	RAW	14.1	42.0	48.6	9.4	1.3	13030.	0.0	0.0	0.0	0.0	54.3	12106.	2370.	4.0	0.	HVC BIT	MARGINAL
480	WASH	16.8	41.6	49.0	9.4	1.1	13122.	0.0	0.0	0.0	0.0	54.7	11813.	2542.	3.3	0.	HVC BIT	MARGINAL
483	RAW	13.1	43.8	46.0	10.2	3.7	12967.	5.2	72.1	1.4	8.7	52.3	12046.	1997.	4.2	60.	HVC BIT	LATENT
489	RAW	11.3	42.1	43.9	13.9	4.2	12336.	4.9	67.5	1.3	7.1	52.4	12125.	2052.	4.0	59.	HVC BIT	LATENT
489	WASH	11.8	44.3	45.2	10.6	3.7	12979.	0.0	0.0	0.0	0.0	51.5	12304.	2062.	3.6	59.	HVC BIT	LATENT
493	RAW	12.1	39.3	50.2	10.5	1.4	12955.	5.3	72.8	1.6	9.0	56.9	12481.	2471.	5.5	66.	HVC BIT	MARGINAL
493	WASH	12.5	40.2	51.3	8.6	1.3	13290.	5.2	75.8	1.7	9.3	56.7	12499.	2594.	0.0	0.	HVC BIT	MARGINAL
502	RAW	10.9	41.1	45.9	13.1	4.0	12523.	0.0	0.0	0.0	0.0	54.1	12276.	2132.	4.2	66.	HVC BIT	LATENT
502	WASH	10.3	44.2	46.7	9.1	3.9	13195.	5.3	73.6	1.4	7.9	52.4	12530.	2094.	3.9	62.	HVC BIT	LATENT
COUNTY: 173 WARRICK																		
480	RAW	14.9	36.0	55.4	8.6	1.0	12982.	0.0	0.0	0.0	0.0	61.2	11899.	2678.	0.0	0.	HVC BIT	MARGINAL
480	WASH	10.3	43.3	47.9	8.8	3.7	13099.	0.0	0.0	0.0	0.0	53.5	12429.	2071.	4.4	61.	HVC BIT	LATENT
483	RAW	11.3	39.8	50.6	9.6	3.1	12792.	5.1	75.4	1.5	10.1	57.0	12137.	2317.	2.7	53.	HVC BIT	LATENT
483	WASH	13.0	40.1	51.3	8.6	2.6	13045.	0.0	0.0	0.0	0.0	57.1	12061.	2275.	3.5	59.	HVC BIT	LATENT
489	RAW	10.4	41.6	47.4	11.1	4.4	12704.	5.1	71.5	1.3	8.2	54.6	12236.	2067.	3.6	60.	HVC BIT	LATENT
489	WASH	11.8	41.7	48.1	10.2	3.8	12868.	0.0	0.0	0.0	0.0	54.7	12136.	2164.	4.6	63.	HVC BIT	LATENT

AVERAGE COALBED ANALYSES FOR STATE: 19 IOWA

BED	TYPE ANAL	PROXIMATE MOI REC	PROXIMATE DRY VOL MATT	PROXIMATE DRY FIXD CARB	PROXIMATE DRY ASH	DRY SUL	DRY BTU	ULTIMATE DRY HYD	ULTIMATE DRY CAR	ULTIMATE DRY NIT	ULTIMATE DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
	COUNTY: 7 APPANOOSE																	
484	RAW	16.1	41.3	43.8	15.0	5.2	11923.	4.9	68.5	1.2	8.9	53.1	11008.	1974.	3.0	55.	HVC BIT	LATENT
799	RAW	14.4	42.1	47.9	10.0	4.7	12750.	0.0	0.0	0.0	0.0	54.5	11523.	0.	0.0	0.	HVC BIT	LATENT
	COUNTY: 15 BOONE																	
530	RAW	15.4	43.0	45.6	11.4	5.5	12550.	5.0	68.6	1.0	8.5	52.9	11270.	2300.	0.0	0.	HVC BIT	LATENT
548	RAW	20.3	37.7	40.1	22.2	9.0	10530.	0.0	0.0	0.0	0.0	54.5	9474.	2020.	0.0	0.	SUBBIT C	
	COUNTY: 49 DALLAS																	
530	RAW	15.5	39.0	42.0	19.1	5.2	11299.	4.7	65.6	1.3	8.3	53.8	10979.	2075.	0.0	0.	HVC BIT	LATENT
	COUNTY: 51 DAVIS																	
799	RAW	12.2	42.5	38.5	19.0	8.6	11380.	0.0	0.0	0.0	0.0	49.8	11161.	1920.	3.0	59.	HVC BIT	LATENT
	COUNTY: 99 JASPER																	
530	RAW	15.9	41.9	41.6	16.5	6.7	11640.	4.6	63.6	1.3	7.3	51.7	10790.	2000.	0.0	0.	HVC BIT	LATENT
799	RAW	16.7	40.4	41.4	18.2	5.4	11345.	0.0	0.0	0.0	0.0	52.4	10715.	2025.	0.0	0.	HVC BIT	LATENT
	COUNTY: 117 LUCAS																	
530	RAW	16.2	41.2	43.0	15.7	4.7	11715.	4.6	66.9	1.2	7.5	52.6	10942.	2058.	0.0	0.	HVC BIT	LATENT
799	RAW	17.5	39.8	43.8	16.4	3.6	11633.	4.7	64.9	1.5	7.6	53.9	10869.	2061.	2.9	59.	HVC BIT	LATENT
	COUNTY: 123 MAHASKA																	
517	RAW	12.8	38.1	32.3	29.6	6.3	9570.	4.0	52.6	0.9	6.6	48.6	10740.	2190.	1.0	59.	HVC BIT	LATENT
530	RAW	9.6	48.1	38.3	13.6	7.3	12130.	4.9	65.6	1.6	7.0	45.8	11771.	1910.	3.5	50.	HVC BIT	LATENT
539	RAW	12.1	43.6	39.2	17.2	7.8	11450.	4.6	62.7	0.9	6.8	49.3	11118.	2070.	5.0	52.	HVC BIT	LATENT
550	RAW	12.4	44.5	39.6	15.9	8.6	11000.	4.7	62.9	1.1	6.8	49.1	10392.	1950.	3.0	51.	SUBBIT B	
799	RAW	12.9	43.5	41.3	15.2	6.1	11895.	4.7	63.4	1.0	6.2	50.4	11401.	2015.	3.6	59.	HVC BIT	LATENT
	COUNTY: 125 MARION																	
001	RAW	17.8	40.8	43.9	15.3	6.9	11770.	4.6	64.5	1.2	7.5	53.8	10489.	2010.	0.0	0.	SUBBIT B	
484	RAW	15.7	42.8	42.1	15.1	6.0	11755.	4.9	66.8	1.2	9.1	51.2	10856.	2003.	0.0	0.	HVC BIT	LATENT
530	RAW	15.9	41.4	42.6	16.0	5.8	11656.	4.6	65.3	1.4	7.2	52.5	10855.	2025.	2.2	62.	HVC BIT	LATENT

AVERAGE COALBED ANALYSES FOR STATE: 19 IOWA

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER MGI	RANK	GRADE
799	RAW	16.3	41.3	41.6	17.0	0.2	11547.	4.7	64.9	1.3	8.4	52.2	10743.	2026.	2.7	64.	HVC BIT	LATENT
COUNTY: 135 MONROE																		
530	RAW	13.9	41.2	43.6	15.1	3.9	11960.	4.6	65.8	1.3	8.3	52.8	11540.	2013.	2.2	55.	HVC BIT	LATENT
550	RAW	13.4	45.2	38.8	16.0	6.2	11690.	4.7	64.1	1.2	7.8	47.7	11200.	2080.	3.0	51.	HVC BIT	LATENT
799	RAW	16.2	42.6	43.5	13.9	4.9	12114.	4.9	67.5	1.2	9.0	52.0	11102.	1989.	3.5	63.	HVC BIT	LATENT
COUNTY: 145 PAGE																		
442	RAW	20.4	43.8	43.7	12.5	4.1	12063.	4.9	67.9	1.5	9.2	51.2	10363.	2283.	0.0	0.	SUBBIT B	
COUNTY: 153 POLK																		
530	RAW	14.4	39.9	41.0	19.0	6.4	11333.	4.7	65.6	1.2	8.7	52.8	11048.	2014.	0.0	0.	HVC BIT	LATENT
799	RAW	10.1	37.7	38.7	23.6	6.2	10760.	0.0	0.0	0.0	0.0	53.1	11721.	0.	0.0	0.	HVC BIT	LATENT
COUNTY: 173 TAYLOR																		
442	RAW	20.5	40.4	44.6	15.0	5.1	11750.	4.7	65.6	1.3	8.5	54.1	10226.	2197.	0.0	0.	SUBBIT B	
COUNTY: 177 VAN BUREN																		
799	RAW	11.8	42.2	41.6	16.3	7.3	11815.	5.0	67.6	1.0	7.3	51.7	11462.	2080.	0.0	0.	HVC BIT	LATENT
COUNTY: 179 WAPELLO																		
484	RAW	17.0	42.9	44.8	12.3	5.0	12317.	4.8	68.4	1.2	9.2	52.5	10973.	2333.	0.0	0.	HVC BIT	LATENT
517	RAW	12.8	40.0	38.5	21.5	7.6	10830.	4.4	59.4	1.0	6.1	51.5	10927.	2080.	3.0	50.	HVC BIT	LATENT
799	RAW	14.7	43.3	41.8	14.9	5.8	12063.	5.0	67.2	1.2	8.4	50.7	11282.	1987.	4.0	57.	HVC BIT	LATENT
COUNTY: 181 WARREN																		
530	RAW	12.5	42.0	43.7	14.3	4.9	12187.	0.0	0.0	0.0	0.0	52.5	11769.	0.	0.0	0.	HVC BIT	LATENT
799	RAW	12.9	45.4	44.2	10.4	4.2	12750.	0.0	0.0	0.0	0.0	50.4	11843.	0.	0.0	0.	HVC BIT	LATENT
COUNTY: 185 WAYNE																		
484	RAW	18.7	42.6	44.3	13.1	6.0	12090.	4.7	66.1	1.2	8.9	52.6	10512.	1930.	0.0	0.	HVC BIT	LATENT

AVERAGE COALBED ANALYSES FOR STATE: 19 IOWA

TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER MGI	RANK	GRADE
COUNTY: 187 WEBSTER																	
RAW	21.9	44.3	40.8	14.8	7.4	11587.	4.8	64.4	1.0	9.1	49.7	9661.	2135.	0.0	0.	SUBBIT B	

AVERAGE COALBED ANALYSES FOR STATE: 20 KANSAS

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER MGI	RANK	GRADE
COUNTY:	11 BOURBON																	
492	WASH	6.0	39.2	47.3	13.5	2.4	12457.	0.0	0.0	0.0	0.0	55.8	13248.	2542.	7.2	63.	HVB BIT	LATENT
COUNTY:	21 CHEROKEE																	
001	WASH	4.5	39.0	50.4	10.6	3.3	13352.	0.0	0.0	0.0	0.0	57.6	13874.	2004.	8.3	0.	HVB BIT	LATENT
492	RAW	5.0	38.2	50.6	11.2	2.9	13187.	0.0	0.0	0.0	0.0	58.1	13758.	2120.	0.0	0.	HVB BIT	LATENT
492	WASH	7.1	38.5	49.1	12.4	2.7	12819.	0.0	0.0	0.0	0.0	57.2	13242.	2413.	8.2	68.	HVB BIT	LATENT
499	RAW	2.4	39.7	48.1	12.3	4.4	13010.	0.0	0.0	0.0	0.0	56.2	13955.	2250.	8.5	0.	HVB BIT	LATENT
499	WASH	4.3	40.1	50.3	9.6	3.7	13652.	0.0	0.0	0.0	0.0	56.8	14011.	2016.	8.2	59.	HVA BIT	LATENT
504	RAW	4.0	37.8	49.9	12.3	3.8	12937.	0.0	0.0	0.0	0.0	58.3	13711.	1980.	8.0	0.	HVB BIT	LATENT
504	WASH	4.9	36.8	50.6	12.6	3.4	13023.	0.0	0.0	0.0	0.0	59.3	13774.	2036.	8.2	64.	HVB BIT	LATENT
513	WASH	7.3	36.8	48.4	14.8	4.4	12580.	4.7	68.9	1.1	6.1	58.5	13106.	2100.	8.0	69.	HVB BIT	LATENT
904	WASH	6.2	39.8	50.9	9.4	3.5	13447.	0.0	0.0	0.0	0.0	57.2	13490.	2040.	7.5	55.	HVB BIT	LATENT
COUNTY:	37 CRAWFORD																	
001	RAW	2.7	42.9	45.4	11.7	5.1	13260.	0.0	0.0	0.0	0.0	52.8	13992.	0.	0.0	0.	HVB BIT	LATENT
001	WASH	3.9	37.4	52.1	10.5	4.0	13416.	5.0	72.7	1.2	3.7	59.6	13917.	2020.	8.0	58.	HVB BIT	LATENT
492	RAW	4.4	37.9	48.0	14.1	2.5	12421.	0.0	0.0	0.0	0.0	57.1	13553.	2405.	8.0	69.	HVB BIT	LATENT
492	WASH	4.9	37.9	49.5	12.6	2.9	12937.	5.1	73.9	1.5	7.5	57.8	13737.	2264.	7.7	65.	HVB BIT	LATENT
499	WASH	3.3	44.4	45.5	10.1	4.5	13507.	0.0	0.0	0.0	0.0	51.8	13978.	2087.	0.0	0.	HVB BIT	LATENT
504	RAW	4.6	36.8	48.7	14.5	4.4	12773.	0.0	0.0	0.0	0.0	58.7	13723.	1972.	0.0	0.	HVB BIT	LATENT
504	WASH	5.8	37.1	50.6	12.3	3.8	13217.	0.0	0.0	0.0	0.0	59.1	13711.	2005.	0.0	0.	HVB BIT	LATENT
513	RAW	4.6	35.8	51.8	12.4	4.5	13069.	5.0	72.7	1.4	5.0	60.8	13688.	2046.	8.0	63.	HVB BIT	LATENT
513	WASH	5.5	35.2	55.4	9.5	4.2	13682.	0.0	0.0	0.0	0.0	62.6	13750.	2036.	8.0	65.	HVB BIT	LATENT
906	WASH	6.7	36.6	52.8	10.6	4.2	13540.	0.0	0.0	0.0	0.0	60.5	13612.	2080.	8.0	62.	HVB BIT	LATENT
909	WASH	5.5	35.6	52.9	11.5	4.3	13385.	0.0	0.0	0.0	0.0	61.3	13745.	1995.	8.5	64.	HVB BIT	LATENT

AVERAGE COALBED ANALYSES FOR STATE: 20 KANSAS

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
940	WASH	5.3	38.5	50.7	10.9	3.8	13395.	0.0	0.0	0.0	0.0	58.1	13766.	1940.	8.5	60.	HVB BIT	LATENT
	COUNTY:	103	LEAVENWORTH															
492	RAW	9.6	38.2	42.8	19.0	7.1	11510.	0.0	0.0	0.0	0.0	55.2	11866.	0.	0.0	0.	HVC BIT	LATENT
	COUNTY:	139	OSAGE															
442	RAW	12.3	40.4	46.8	12.7	5.7	11940.	0.0	0.0	0.0	0.0	55.3	11273.	2120.	0.0	0.	HVC BIT	LATENT

AVERAGE COALBED ANALYSES FOR STATE: 21 KENTUCKY (EAST)

BED	TYPE ANAL	MOI REC	PROXIMATE DRY VOL. MATT	PROXIMATE DRY FIXD CARB	PROXIMATE DRY ASH	DRY SUL	DRY BTU	ULTIMATE DRY HYD	ULTIMATE DRY CAR	ULTIMATE DRY NIT	ULTIMATE DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
COUNTY: 13 BELL																		
001	RAW	4.5	37.7	53.3	8.9	1.3	13499.	0.0	0.0	0.0	0.0	59.3	14030.	2619.	4.0	46.	HVA BIT	MARGINAL
001	WASH	4.4	39.5	56.7	3.8	1.0	14430.	0.0	0.0	0.0	0.0	59.3	14240.	2523.	5.0	44.	HVA BIT	PREMIUM
096	RAW	4.4	36.5	50.9	12.6	1.4	12850.	4.9	72.3	1.5	7.3	59.2	13927.	2910.	5.0	41.	HVB BIT	LATENT
104	RAW	4.0	39.0	52.7	8.3	1.5	13623.	5.4	79.2	1.5	8.0	58.2	14109.	2675.	4.9	45.	HVA BIT	MARGINAL
121	RAW	3.1	37.0	47.1	15.9	1.2	12120.	0.0	0.0	0.0	0.0	57.1	13912.	2570.	1.0	43.	HVB BIT	LATENT
126	RAW	3.0	38.5	55.8	5.7	0.7	14089.	5.5	81.2	2.0	7.7	59.6	14442.	2516.	0.0	0.	HVA BIT	PREMIUM
126	WASH	5.2	39.6	55.8	4.6	0.8	14273.	5.5	80.3	1.8	7.8	58.9	14092.	2685.	5.0	0.	HVA BIT	PREMIUM
134	RAW	2.2	39.8	50.3	10.0	3.2	13405.	0.0	0.0	0.0	0.0	56.9	14214.	2362.	4.0	57.	HVA BIT	LATENT
135	RAW	4.0	37.6	54.9	7.3	1.0	13878.	5.3	75.9	1.8	7.5	59.8	14281.	2601.	4.0	45.	HVA BIT	PREMIUM
135	WASH	3.6	42.0	54.9	3.2	0.9	14510.	0.0	0.0	0.0	0.0	57.0	14353.	2470.	0.0	0.	HVA BIT	PREMIUM
142	RAW	3.1	38.6	55.7	5.7	1.2	14192.	5.3	77.7	2.2	5.8	59.6	14475.	2481.	5.6	51.	HVA BIT	MARGINAL
142	WASH	5.0	39.6	56.2	4.2	1.2	14368.	0.0	0.0	0.0	0.0	59.1	14104.	2527.	0.0	0.	HVA BIT	MARGINAL
151	RAW	2.8	39.9	56.4	3.7	1.0	14566.	5.7	83.0	2.0	6.9	59.0	14592.	2211.	5.9	52.	HVA BIT	PREMIUM
152	RAW	2.4	37.7	55.5	6.8	0.8	14029.	0.0	0.0	0.0	0.0	60.0	14638.	2487.	6.0	53.	HVA BIT	PREMIUM
157	RAW	3.7	37.2	57.5	5.4	0.9	14241.	5.0	76.7	1.9	5.8	61.2	14406.	2454.	5.3	49.	HVA BIT	PREMIUM
157	WASH	4.1	39.0	57.7	3.4	0.9	14615.	0.0	0.0	0.0	0.0	60.0	14426.	2640.	0.0	0.	HVA BIT	PREMIUM
799	RAW	3.7	36.0	50.3	13.7	1.8	12794.	0.0	0.0	0.0	0.0	59.4	14105.	2722.	4.5	40.	HVA BIT	LATENT
863	RAW	3.6	39.8	52.8	7.4	1.0	13790.	0.0	0.0	0.0	0.0	57.5	14285.	2740.	5.0	44.	HVA BIT	PREMIUM
892	RAW	2.7	39.8	56.7	3.4	0.8	14443.	5.5	82.3	1.8	7.3	59.1	14474.	2423.	0.0	0.	HVA BIT	PREMIUM
892	WASH	4.8	38.7	56.1	5.2	1.0	14128.	5.5	80.1	1.8	7.2	59.6	14077.	2550.	0.0	0.	HVA BIT	PREMIUM
893	RAW	2.5	37.6	53.7	8.7	1.2	13600.	0.0	0.0	0.0	0.0	59.5	14432.	2610.	5.0	44.	HVA BIT	MARGINAL
908	RAW	2.4	36.2	50.2	13.6	2.0	12940.	0.0	0.0	0.0	0.0	59.3	14448.	2580.	6.5	55.	HVA BIT	LATENT
910	RAW	3.6	38.6	54.3	7.2	1.1	13902.	0.0	0.0	0.0	0.0	59.0	14332.	2822.	5.0	49.	HVA BIT	MARGINAL
COUNTY: 19 BOYD																		
104	RAW	8.7	38.1	48.7	13.2	2.8	12293.	0.0	0.0	0.0	0.0	57.3	12553.	2251.	2.5	48.	HVC BIT	LATENT
104	WASH	9.6	40.7	51.5	7.8	2.8	13132.	0.0	0.0	0.0	0.0	56.7	12516.	2332.	2.5	53.	HVC BIT	LATENT
799	RAW	7.2	40.7	46.0	13.3	3.7	12230.	4.7	64.6	1.2	7.8	54.3	12613.	2325.	0.0	0.	HVC BIT	LATENT

AVERAGE COALBED ANALYSES FOR STATE: 21 KENCUCKY (EAST)

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
	COUNTY:	25	BREATHITT															
096	RAW	6.1	39.4	54.3	6.3	0.8	13750.	0.0	0.0	0.0	0.0	58.4	13692.	2910.	0.0	0.	HVB BIT	PREMIUM
096	WASH	6.8	36.9	54.1	9.0	0.8	13231.	0.0	0.0	0.0	0.0	60.1	13475.	2910.	1.5	47.	HVB BIT	MARGINAL
104	RAW	6.9	37.6	52.4	10.0	0.8	13220.	0.0	0.0	0.0	0.0	58.9	13580.	2910.	1.0	38.	HVB BIT	MARGINAL
111	RAW	9.3	35.4	52.1	12.5	0.9	12390.	4.3	68.8	1.3	10.9	60.4	12700.	2910.	1.3	40.	HVC BIT	LATENT
151	RAW	5.1	39.9	54.0	6.2	0.8	14020.	0.0	0.0	0.0	0.0	58.0	14095.	2240.	5.0	0.	HVA BIT	PREMIUM
151	WASH	4.7	41.7	55.7	2.6	0.7	14590.	5.5	81.4	1.7	8.1	57.4	14188.	2267.	0.0	0.	HVA BIT	PREMIUM
877	RAW	8.9	37.2	56.0	6.8	0.7	13360.	0.0	0.0	0.0	0.0	60.6	12961.	2910.	1.5	43.	HVC BIT	PREMIUM
	COUNTY:	43	CARTER															
104	RAW	8.7	38.4	51.8	9.7	1.5	12929.	5.1	76.1	1.5	10.0	58.2	12879.	2634.	2.5	46.	HVC BIT	MARGINAL
151	RAW	7.7	39.0	52.6	8.4	1.2	13266.	5.4	79.6	1.7	9.2	58.1	13224.	2807.	2.0	0.	HVB BIT	MARGINAL
	COUNTY:	51	CLAY															
001	RAW	3.8	38.3	55.0	6.7	1.2	13923.	0.0	0.0	0.0	0.0	59.5	14231.	2468.	0.0	0.	HVA BIT	MARGINAL
104	RAW	5.6	33.6	52.4	14.0	0.8	12590.	0.0	0.0	0.0	0.0	61.9	13753.	2910.	2.0	44.	HVB BIT	LATENT
135	RAW	3.7	39.1	54.8	6.1	1.0	14042.	5.5	79.8	1.8	7.7	58.9	14302.	2677.	4.7	48.	HVA BIT	PREMIUM
135	WASH	4.3	39.3	54.7	6.1	0.9	14042.	0.0	0.0	0.0	0.0	58.7	14223.	2758.	4.7	44.	HVA BIT	PREMIUM
212	RAW	3.8	38.9	54.2	6.9	1.7	14001.	5.4	76.4	1.3	6.3	58.9	14277.	2427.	4.8	46.	HVA BIT	MARGINAL
799	RAW	3.2	39.2	48.3	12.5	3.1	13030.	0.0	0.0	0.0	0.0	56.4	14069.	2250.	7.0	45.	HVA BIT	LATENT
951	RAW	3.6	41.6	52.7	5.8	2.1	14127.	0.0	0.0	0.0	0.0	56.5	14212.	2167.	4.5	44.	HVA BIT	LATENT
	COUNTY:	65	ESTILL															
001	WASH	2.3	41.3	54.4	4.3	1.3	14430.	0.0	0.0	0.0	0.0	57.3	14595.	2280.	6.5	0.	HVA BIT	MARGINAL
096	WASH	6.3	38.7	53.4	7.9	1.9	13367.	0.0	0.0	0.0	0.0	58.7	13373.	2660.	2.0	0.	HVB BIT	LATENT
135	WASH	5.1	38.0	55.0	7.0	0.8	13930.	0.0	0.0	0.0	0.0	59.7	14145.	2910.	5.5	42.	HVA BIT	PREMIUM
151	WASH	4.2	40.1	54.7	5.2	1.3	14318.	0.0	0.0	0.0	0.0	58.2	14323.	2375.	6.3	41.	HVA BIT	MARGINAL

AVERAGE COALBED ANALYSES FOR STATE: 21 KENTUCKY (EAST)

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
COUNTY:	71	FLOYD																
001	RAW	5.0	37.9	54.8	7.3	1.1	13829.	0.0	0.0	0.0	0.0	59.7	14067.	2577.	4.5	47.	HVA BIT	MARGINAL
001	WASH	5.1	39.2	56.0	4.9	0.9	14222.	0.0	0.0	0.0	0.0	59.2	14103.	2524.	4.0	0.	HVA BIT	PREMIUM
151	RAW	4.5	38.4	56.6	5.0	0.8	14205.	5.4	80.6	1.7	8.5	60.0	14203.	2576.	4.1	45.	HVA BIT	PREMIUM
151	WASH	5.3	39.6	56.3	4.1	0.8	14348.	5.4	79.7	1.7	9.1	59.0	14080.	2690.	4.9	44.	HVA BIT	PREMIUM
154	RAW	4.3	37.9	56.5	5.6	1.1	14077.	5.4	79.5	1.7	8.0	60.3	14151.	2566.	3.5	0.	HVA BIT	MARGINAL
154	WASH	4.5	40.8	55.9	3.3	1.0	14402.	0.0	0.0	0.0	0.0	58.1	14118.	2512.	5.0	47.	HVA BIT	PREMIUM
157	RAW	4.1	38.7	54.7	6.6	1.0	13971.	5.5	79.1	1.6	8.0	59.1	14254.	2527.	4.7	39.	HVA BIT	PREMIUM
157	WASH	5.0	38.9	55.9	5.2	0.8	14186.	5.4	80.3	1.6	7.6	59.4	14135.	2599.	5.0	0.	HVA BIT	PREMIUM
799	RAW	6.9	37.1	54.6	8.3	0.6	13240.	0.0	0.0	0.0	0.0	60.1	13374.	2910.	1.0	40.	HVB BIT	MARGINAL
878	RAW	6.7	35.0	55.2	9.8	1.2	13420.	0.0	0.0	0.0	0.0	62.0	13737.	2520.	4.0	0.	HVB BIT	MARGINAL
878	WASH	5.3	40.1	54.8	5.1	1.0	14215.	0.0	0.0	0.0	0.0	58.2	14069.	2415.	0.0	42.	HVA BIT	PREMIUM
901	WASH	4.9	40.0	55.1	4.9	0.9	14152.	5.4	79.7	1.6	8.0	58.4	14070.	2893.	4.5	38.	HVA BIT	PREMIUM
909	RAW	5.4	35.1	50.7	14.2	0.9	12440.	0.0	0.0	0.0	0.0	60.1	13641.	2910.	1.5	42.	HVB BIT	LATENT
913	RAW	5.3	37.9	54.5	7.6	1.2	13733.	0.0	0.0	0.0	0.0	59.6	13956.	2437.	4.2	43.	HVB BIT	MARGINAL
913	WASH	4.7	40.2	55.8	4.1	0.9	14342.	0.0	0.0	0.0	0.0	58.5	14149.	2517.	6.0	44.	HVA BIT	PREMIUM
939	RAW	4.6	38.2	56.0	5.8	0.9	14057.	0.0	0.0	0.0	0.0	60.0	14140.	2516.	4.5	44.	HVA BIT	PREMIUM
939	WASH	5.1	40.0	56.3	3.7	0.9	14417.	0.0	0.0	0.0	0.0	58.8	14112.	2710.	0.0	0.	HVA BIT	PREMIUM
COUNTY:	89	GREENUP																
104	RAW	10.0	37.8	51.1	11.1	3.6	12677.	0.0	0.0	0.0	0.0	58.7	12351.	2217.	0.0	0.	HVC BIT	LATENT
COUNTY:	95	HARLAN																
001	RAW	4.8	38.0	54.8	7.2	1.0	13673.	0.0	0.0	0.0	0.0	59.6	13927.	2645.	3.5	46.	HVB BIT	PREMIUM
001	WASH	4.3	38.2	55.3	6.6	0.9	13968.	0.0	0.0	0.0	0.0	59.6	14220.	2802.	5.5	0.	HVA BIT	PREMIUM
104	RAW	4.1	38.9	55.7	5.4	0.7	14017.	5.3	80.8	1.6	8.2	59.3	14147.	2557.	4.4	42.	HVA BIT	PREMIUM
104	WASH	3.5	40.9	54.6	4.5	0.5	14190.	0.0	0.0	0.0	0.0	57.4	14302.	2690.	0.0	42.	HVA BIT	PREMIUM
111	RAW	3.8	39.2	54.2	6.6	0.7	14000.	0.0	0.0	0.0	0.0	58.5	14376.	2805.	4.2	39.	HVA BIT	PREMIUM
135	RAW	5.2	38.7	55.8	5.5	0.9	14002.	0.0	0.0	0.0	0.0	59.5	13951.	2479.	2.7	0.	HVB BIT	PREMIUM
142	RAW	3.0	38.6	56.4	4.9	1.0	14317.	5.1	76.2	1.5	5.8	59.8	14519.	2494.	4.3	43.	HVA BIT	PREMIUM
142	WASH	4.2	40.7	54.5	4.9	0.7	14130.	0.0	0.0	0.0	0.0	57.6	14161.	2452.	4.0	38.	HVA BIT	PREMIUM
151	RAW	3.5	38.3	56.3	5.3	0.9	14174.	5.4	80.6	1.6	7.4	60.0	14357.	2350.	4.3	44.	HVA BIT	PREMIUM

AVERAGE COALBED ANALYSES FOR STATE: 21 KENTUCKY (EAST)

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT.	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
151	WASH	3.4	39.5	56.2	4.3	0.8	14411.	5.4	82.0	1.6	7.3	59.1	14472.	2561.	6.0	38.	HVA BIT	PREMIUM
157	RAW	3.0	38.0	56.5	5.5	0.9	14207.	5.4	80.9	1.7	7.2	60.3	14501.	2606.	4.7	47.	HVA BIT	PREMIUM
157	WASH	3.5	39.0	56.2	4.9	1.0	14332.	5.4	81.3	1.9	7.9	59.5	14441.	2673.	6.1	45.	HVA BIT	PREMIUM
908	RAW	3.0	39.1	56.3	4.7	1.1	14320.	0.0	0.0	0.0	0.0	59.4	14452.	2705.	6.0	47.	HVA BIT	MARGINAL
945	RAW	4.6	39.3	54.3	6.4	0.8	13820.	0.0	0.0	0.0	0.0	58.5	14011.	2576.	0.0	0.	HVA BIT	PREMIUM
945	WASH	5.0	39.5	55.3	5.2	0.8	14069.	5.3	79.7	1.6	8.1	58.8	14013.	2637.	4.2	40.	HVA BIT	PREMIUM
956	RAW	2.9	38.8	54.8	6.4	1.1	13910.	0.0	0.0	0.0	0.0	59.1	14341.	2460.	5.0	45.	HVA BIT	MARGINAL
	COUNTY:	109	JACKSON															
212	RAW	5.1	40.4	50.6	9.1	3.0	13493.	0.0	0.0	0.0	0.0	56.6	13723.	2267.	0.0	0.	HVB BIT	LATENT
287	RAW	6.8	35.6	53.9	10.6	1.6	13081.	5.5	80.1	1.7	7.6	61.1	13439.	2651.	0.0	0.	HVB BIT	MARGINAL
799	RAW	6.5	36.8	55.8	7.3	1.4	13692.	0.0	0.0	0.0	0.0	60.9	13644.	2606.	0.0	0.	HVB BIT	MARGINAL
	COUNTY:	115	JOHNSON															
151	RAW	6.3	38.6	56.1	5.3	1.3	13964.	5.4	80.4	1.7	9.0	59.7	13666.	2372.	2.6	44.	HVB BIT	MARGINAL
151	WASH	7.7	41.8	53.6	4.7	2.0	14070.	5.4	77.8	1.6	8.6	56.7	13391.	2200.	0.0	0.	HVB BIT	LATENT
799	RAW	6.2	37.7	55.1	7.3	0.6	13490.	0.0	0.0	0.0	0.0	59.9	13588.	2910.	1.0	40.	HVB BIT	PREMIUM
	COUNTY:	119	KNOTT															
001	RAW	6.9	35.8	50.8	13.4	1.4	12590.	0.0	0.0	0.0	0.0	59.7	13360.	2710.	3.2	0.	HVB BIT	LATENT
096	RAW	4.8	37.8	53.5	8.8	2.2	13550.	5.2	78.1	1.5	6.9	59.5	13869.	2606.	4.2	48.	HVB BIT	LATENT
096	WASH	3.3	39.2	53.6	7.2	2.1	13842.	0.0	0.0	0.0	0.0	58.5	14207.	2670.	0.0	0.	HVA BIT	LATENT
104	RAW	6.0	35.8	54.6	9.6	0.8	13312.	0.0	0.0	0.0	0.0	61.1	13772.	2905.	2.4	40.	HVB BIT	MARGINAL
135	RAW	3.7	38.2	56.1	5.7	0.8	14177.	5.1	76.8	1.7	7.0	59.9	14399.	2855.	4.9	45.	HVA BIT	PREMIUM
151	RAW	4.4	37.7	59.6	2.7	0.8	14560.	0.0	0.0	0.0	0.0	61.5	14222.	2452.	0.0	0.	HVA BIT	PREMIUM
	COUNTY:	121	KNOX															
001	RAW	2.7	38.6	56.1	5.4	1.0	14260.	0.0	0.0	0.0	0.0	59.7	14561.	0.	0.0	0.	HVA BIT	PREMIUM
135	RAW	3.6	37.5	54.3	8.2	1.0	13626.	5.4	79.4	1.9	7.9	59.8	14226.	2782.	3.5	47.	HVA BIT	MARGINAL
151	RAW	3.8	39.7	51.6	8.7	2.5	13710.	0.0	0.0	0.0	0.0	57.4	14172.	2382.	4.2	50.	HVA BIT	LATENT
157	RAW	7.4	37.1	56.4	6.5	1.3	13975.	0.0	0.0	0.0	0.0	61.0	13671.	2180.	5.0	0.	HVB BIT	MARGINAL
157	WASH	5.9	41.7	55.7	2.7	1.2	14595.	0.0	0.0	0.0	0.0	57.5	13974.	2100.	0.0	44.	HVB BIT	MARGINAL

AVERAGE COALBED ANALYSES FOR STATE: 21 KENTUCKY (EAST)

BED	TYPE ANAL	********PROXIMATE******** MOI RFC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
COUNTY:	125 LAUREL																	
151	RAW	5.9	37.7	51.3	11.1	2.6	13085.	0.0	0.0	0.0	0.0	58.7	13528.	2430.	4.0	59.	HVB BIT	LATENT
157	RAW	5.5	39.0	57.2	3.8	1.0	14390.	5.4	80.4	1.9	7.5	59.8	14022.	2600.	5.5	47.	HVA BIT	PREMIUM
212	RAW	4.4	41.8	51.8	6.4	3.3	14017.	5.7	79.2	1.9	7.1	56.2	13920.	2117.	4.2	48.	HVB BIT	LATENT
799	RAW	5.2	38.9	55.0	6.1	2.2	13874.	0.0	0.0	0.0	0.0	59.3	13746.	2230.	4.5	53.	HVB BIT	LATENT
COUNTY:	129 LEE																	
135	RAW	6.8	40.1	51.1	8.8	2.1	13488.	5.6	79.7	1.7	8.4	56.9	13545.	2307.	3.0	0.	HVB BIT	LATENT
COUNTY:	133 LETCHER																	
001	RAW	3.8	37.0	54.2	8.7	1.2	13636.	0.0	0.0	0.0	0.0	60.1	14262.	2545.	5.2	41.	HVA BIT	MARGINAL
001	WASH	3.4	36.8	48.2	15.0	2.6	12700.	0.0	0.0	0.0	0.0	58.0	14163.	2460.	6.5	44.	HVA BIT	LATENT
104	RAW	5.4	36.4	53.6	10.0	0.7	13300.	0.0	0.0	0.0	0.0	60.2	13920.	2910.	3.5	39.	HVB BIT	MARGINAL
111	RAW	4.6	35.6	58.1	6.3	0.6	13915.	0.0	0.0	0.0	0.0	62.5	14118.	2895.	3.0	44.	HVA BIT	PREMIUM
135	RAW	3.4	38.5	56.0	5.6	0.8	14202.	5.2	79.8	1.9	7.1	59.7	14465.	2722.	4.8	44.	HVA BIT	PREMIUM
135	WASH	3.1	37.0	53.8	9.2	0.8	13650.	0.0	0.0	0.0	0.0	59.9	14519.	2870.	6.0	49.	HVA BIT	MARGINAL
137	RAW	4.1	36.3	55.0	8.7	1.2	13567.	0.0	0.0	0.0	0.0	60.9	14136.	2737.	4.0	44.	HVA BIT	MARGINAL
142	RAW	2.6	38.0	49.9	12.1	3.5	13150.	5.0	73.5	1.4	5.9	58.1	14192.	2300.	6.3	47.	HVA BIT	LATENT
151	RAW	3.2	38.5	56.6	5.0	1.2	14332.	5.4	81.6	1.6	6.7	60.0	14469.	2368.	5.7	44.	HVA BIT	MARGINAL
151	WASH	4.1	39.5	57.2	3.2	1.1	14636.	5.5	82.7	1.7	6.8	59.5	14393.	2405.	6.3	0.	HVA BIT	MARGINAL
168	WASH	3.7	36.1	57.5	6.4	0.9	14178.	5.5	80.0	1.6	6.3	61.9	14495.	2908.	7.6	52.	HVA BIT	PREMIUM
858	RAW	3.2	38.8	54.3	6.9	0.9	13840.	0.0	0.0	0.0	0.0	58.8	14318.	2470.	6.0	43.	HVA BIT	PREMIUM
872	RAW	2.8	36.2	52.5	11.4	1.0	13170.	0.0	0.0	0.0	0.0	60.0	14399.	2750.	5.0	39.	HVA BIT	MARGINAL
911	RAW	3.2	38.8	54.3	6.9	0.9	13840.	0.0	0.0	0.0	0.0	58.8	14318.	2470.	6.0	43.	HVA BIT	PREMIUM
935	RAW	5.5	37.0	54.6	8.5	1.5	13435.	0.0	0.0	0.0	0.0	60.3	13706.	2650.	5.0	44.	HVB BIT	MARGINAL
936	RAW	5.4	36.1	56.0	7.9	1.1	13610.	0.0	0.0	0.0	0.0	61.4	13863.	2600.	4.0	44.	HVB BIT	MARGINAL
939	RAW	3.2	37.6	59.2	3.2	0.7	14637.	5.5	83.2	1.6	6.5	61.5	14570.	2583.	0.0	0.	HVA BIT	PREMIUM
956	RAW	3.4	39.4	54.8	5.8	1.4	14294.	0.0	0.0	0.0	0.0	58.8	14516.	2436.	5.5	47.	HVA BIT	MARGINAL

AVERAGE COALBED ANALYSES FOR STATE: 21 KENTUCKY (EAST)

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
COUNTY:	147	MCCREARY																
001	RAW	3.1	39.8	52.4	7.8	2.5	13710.	0.0	0.0	0.0	0.0	57.6	14116.	0.	0.0	0.	HVA BIT	LATENT
151	RAW	0.0	35.3	52.9	11.8	1.2	13107.	4.9	73.3	1.7	7.1	60.9	13840.	2663.	5.4	45.	HVB BIT	MARGINAL
212	RAW	3.2	41.5	48.6	9.9	4.1	13450.	0.0	0.0	0.0	0.0	55.1	13953.	2122.	4.0	46.	HVB BIT	LATENT
287	RAW	3.2	41.3	47.6	11.2	4.0	13115.	0.0	0.0	0.0	0.0	54.8	13826.	2150.	0.0	0.	HVB BIT	LATENT
294	RAW	2.7	41.0	47.2	11.2	3.8	13197.	4.9	68.1	1.2	6.2	54.4	14014.	2064.	3.9	47.	HVA BIT	LATENT
303	RAW	4.4	39.0	55.6	5.4	0.5	14085.	0.0	0.0	0.0	0.0	59.1	14198.	2654.	2.7	46.	HVA BIT	PREMIUM
322	RAW	3.5	40.4	51.2	8.4	2.2	13618.	0.0	0.0	0.0	0.0	56.7	14098.	2535.	4.5	41.	HVA BIT	LATENT
871	RAW	3.6	38.1	54.2	7.7	1.7	13797.	0.0	0.0	0.0	0.0	59.4	14235.	2387.	0.0	0.	HVA BIT	MARGINAL
COUNTY:	153	MAGOFFIN																
096	RAW	6.8	36.8	55.0	8.2	0.9	13400.	0.0	0.0	0.0	0.0	60.5	13489.	2905.	1.9	48.	HVB BIT	MARGINAL
104	RAW	6.7	37.4	54.8	7.8	0.9	13345.	0.0	0.0	0.0	0.0	60.0	13400.	2910.	2.5	44.	HVB BIT	PREMIUM
COUNTY:	159	MARTIN																
001	WASH	6.3	38.0	54.5	7.5	0.7	13457.	4.9	75.1	1.5	9.6	59.4	13558.	2910.	2.7	41.	HVB BIT	PREMIUM
121	RAW	4.6	37.7	52.7	9.6	0.7	13363.	5.4	78.9	1.6	8.8	58.9	14063.	2899.	0.0	0.	HVA BIT	MARGINAL
121	WASH	6.7	38.1	54.5	7.4	0.7	13687.	0.0	0.0	0.0	0.0	59.4	13724.	2910.	3.0	43.	HVB BIT	PREMIUM
168	RAW	6.8	37.8	53.8	8.4	1.1	13670.	5.1	76.4	1.6	7.4	59.4	13776.	2680.	5.0	43.	HVB BIT	MARGINAL
COUNTY:	193	PERRY																
001	RAW	4.9	37.3	55.2	7.6	0.9	13737.	0.0	0.0	0.0	0.0	60.3	14041.	2861.	3.8	43.	HVA BIT	PREMIUM
001	WASH	5.2	37.1	53.4	9.5	2.0	13425.	0.0	0.0	0.0	0.0	60.0	13825.	2485.	0.0	0.	HVB BIT	LATENT
096	RAW	4.1	39.3	52.9	7.8	2.2	13713.	5.5	80.0	1.5	7.1	58.2	14010.	2560.	4.7	41.	HVA BIT	LATENT
096	WASH	5.2	39.3	53.0	7.7	2.0	13742.	0.0	0.0	0.0	0.0	58.2	13883.	2680.	0.0	0.	HVB BIT	LATENT
104	RAW	4.7	37.2	56.0	6.8	0.7	13847.	5.4	80.9	1.5	7.5	60.6	14104.	2885.	3.2	40.	HVA BIT	PREMIUM
104	WASH	4.5	38.9	55.4	5.7	0.6	14030.	0.0	0.0	0.0	0.0	59.1	14158.	2910.	0.0	0.	HVA BIT	PREMIUM
111	RAW	5.0	37.6	54.2	8.3	0.7	13572.	5.4	80.1	1.6	7.7	59.6	14002.	2797.	3.5	42.	HVA BIT	MARGINAL
111	WASH	3.3	39.4	55.2	5.4	0.7	14164.	5.4	79.9	1.7	8.4	58.7	14343.	2769.	4.9	43.	HVA BIT	PREMIUM
135	RAW	3.4	38.5	55.9	5.6	0.9	14133.	5.5	81.3	1.7	7.3	59.7	14374.	2655.	5.4	47.	HVA BIT	PREMIUM

AVERAGE COALBED ANALYSES FOR STATE: 21 KENTUCKY (EAST)

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
135	WASH	5.8	38.3	54.4	7.3	0.9	13798.	0.0	0.0	0.0	0.0	59.3	13920.	2786.	4.7	47.	HVB BIT	PREMIUM
874	RAW	4.5	37.6	54.2	8.2	2.2	13650.	0.0	0.0	0.0	0.0	59.9	13950.	2500.	4.2	47.	HVB BIT	LATENT
874	WASH	5.1	38.4	53.6	8.0	2.2	13530.	0.0	0.0	0.0	0.0	59.1	13708.	2385.	0.0	0.	HVB BIT	LATENT
877	RAW	5.1	38.1	53.6	8.4	2.2	13595.	0.0	0.0	0.0	0.0	59.3	13828.	2580.	4.5	42.	HVB BIT	LATENT
877	WASH	4.7	39.3	53.7	7.0	1.6	13843.	0.0	0.0	0.0	0.0	58.4	13981.	2683.	0.0	0.	HVB BIT	MARGINAL
941	RAW	3.7	38.0	56.2	5.8	0.7	14127.	0.0	0.0	0.0	0.0	60.1	14378.	2910.	5.5	41.	HVA BIT	PREMIUM
942	RAW	4.3	38.1	54.5	7.4	0.7	13776.	5.4	78.7	1.7	9.1	59.4	14173.	2903.	3.8	39.	HVA BIT	PREMIUM
COUNTY:	195	PIKE																
001	RAW	3.8	35.5	56.7	7.8	1.0	13956.	0.0	0.0	0.0	0.0	62.1	14463.	2612.	6.8	50.	HVA BIT	PREMIUM
121	RAW	3.8	39.7	55.5	4.8	0.7	14240.	0.0	0.0	0.0	0.0	58.7	14327.	0.	0.0	0.	HVA BIT	PREMIUM
151	RAW	3.8	37.2	54.1	8.7	1.3	13740.	5.1	76.4	1.4	6.6	60.0	14355.	2582.	5.3	47.	HVA BIT	MARGINAL
151	WASH	4.5	41.2	53.1	5.7	1.7	14230.	5.5	79.5	1.5	6.6	56.8	14216.	2527.	5.5	46.	HVA BIT	MARGINAL
154	RAW	3.8	35.5	56.5	7.9	0.8	13923.	5.2	79.4	1.4	6.7	62.0	14487.	2706.	6.4	48.	HVA BIT	PREMIUM
154	WASH	3.8	37.6	58.2	4.3	0.6	14540.	0.0	0.0	0.0	0.0	61.1	14571.	2885.	0.0	0.	HVA BIT	PREMIUM
157	RAW	3.8	34.5	57.0	8.5	0.7	13827.	5.3	83.0	1.5	6.2	62.9	14476.	2796.	5.9	50.	HVA BIT	MARGINAL
157	WASH	3.1	38.2	56.2	5.6	0.8	14277.	0.0	0.0	0.0	0.0	60.0	14599.	2910.	7.0	43.	HVA BIT	PREMIUM
168	RAW	2.9	33.7	57.6	8.7	0.6	13855.	4.9	76.2	1.5	6.1	63.7	14706.	2786.	7.5	51.	HVA BIT	MARGINAL
168	WASH	3.3	34.4	59.2	6.4	0.6	14311.	5.2	82.0	1.6	5.8	63.7	14745.	2908.	7.8	51.	HVA BIT	PREMIUM
174	RAW	3.0	33.5	58.4	8.2	1.4	14143.	5.1	79.2	1.7	5.4	64.3	14801.	2699.	7.4	61.	HVA BIT	MARGINAL
174	WASH	4.2	31.7	60.9	7.4	0.8	14257.	0.0	0.0	0.0	0.0	66.4	14677.	2910.	0.0	0.	HVA BIT	PREMIUM
196	RAW	2.2	28.0	54.0	18.0	0.8	12530.	4.5	70.9	1.4	4.4	67.2	15003.	2840.	0.0	0.	HVA BIT	LATENT
233	RAW	1.8	32.0	58.1	10.0	3.0	13925.	4.9	77.4	1.8	3.0	65.8	14858.	2212.	6.5	66.	HVA BIT	LATENT
878	RAW	3.8	38.6	54.8	6.7	1.0	14007.	0.0	0.0	0.0	0.0	59.2	14334.	2553.	5.8	47.	HVA BIT	PREMIUM
895	RAW	2.7	33.8	59.0	7.2	0.6	14199.	5.2	81.8	1.4	5.4	64.1	14867.	2874.	7.4	0.	HVA BIT	PREMIUM
895	WASH	5.3	34.6	59.4	6.0	0.6	14420.	0.0	0.0	0.0	0.0	63.6	14470.	2890.	0.0	0.	HVA BIT	PREMIUM
907	RAW	6.0	37.4	50.8	11.8	2.7	12850.	0.0	0.0	0.0	0.0	58.8	13367.	2160.	5.5	51.	HVB BIT	LATENT
913	RAW	5.3	35.5	53.2	11.3	0.9	13206.	0.0	0.0	0.0	0.0	60.8	14012.	2776.	4.5	44.	HVA BIT	MARGINAL
913	WASH	6.9	37.5	57.6	4.9	0.6	14382.	0.0	0.0	0.0	0.0	61.0	14015.	2775.	3.0	39.	HVA BIT	PREMIUM
930	RAW	4.9	33.2	59.1	7.7	0.8	13980.	0.0	0.0	0.0	0.0	64.7	14346.	2845.	7.2	57.	HVA BIT	PREMIUM
939	RAW	4.2	33.9	54.5	11.7	1.0	13250.	0.0	0.0	0.0	0.0	62.5	14297.	2648.	6.7	51.	HVA BIT	MARGINAL
983	RAW	5.0	31.3	58.7	10.0	0.7	13510.	0.0	0.0	0.0	0.0	66.0	14207.	2910.	6.5	60.	HVA BIT	MARGINAL

AVERAGE COALBED ANALYSES FOR STATE: 21 KENTUCKY (EAST)

BED	TYPE ANAL	MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
		********PROXIMATE********						********ULTIMATE********										
	COUNTY:	199	PULASKI															
287	RAW	7.1	35.3	55.1	9.6	1.6	13190.	0.0	0.0	0.0	0.0	61.8	13356.	2790.	3.5	48.	HVB BIT	MARGINAL
	COUNTY:	203	ROCKCASTLE															
799	RAW	8.4	37.8	53.8	8.4	0.6	13355.	5.3	77.9	1.6	9.3	59.2	13270.	2910.	1.5	50.	HVB BIT	MARGINAL
	COUNTY:	235	WHITLEY															
001	RAW	5.5	38.4	52.6	9.0	1.7	13400.	0.0	0.0	0.0	0.0	58.6	13728.	2275.	4.6	43.	HVB BIT	MARGINAL
151	RAW	4.8	37.6	56.3	6.1	1.1	13928.	5.2	78.1	1.8	7.9	60.5	13998.	2526.	4.6	48.	HVB BIT	MARGINAL
157	RAW	4.4	41.4	55.3	3.3	1.2	14378.	5.7	81.4	2.1	8.0	57.6	14088.	2146.	0.0	0.	HVA BIT	MARGINAL
212	RAW	3.3	41.5	50.2	8.3	3.6	13753.	0.0	0.0	0.0	0.0	55.8	14079.	2025.	3.5	46.	HVA BIT	LATENT
													KENTUCKY (WEST)					
	COUNTY:	31	BUTLER															
506	RAW	10.8	40.9	53.3	5.8	1.5	13800.	0.0	0.0	0.0	0.0	57.1	12871.	2178.	1.5	0.	HVC BIT	MARGINAL
506	WASH	10.8	42.7	54.1	3.2	1.2	14220.	0.0	0.0	0.0	0.0	56.2	12954.	2180.	0.0	42.	HVC BIT	MARGINAL
	COUNTY:	47	CHRISTIAN															
506	RAW	10.4	39.1	53.9	7.0	2.6	13550.	5.3	78.6	1.9	8.3	58.8	12714.	2067.	0.0	0.	HVC BIT	LATENT
	COUNTY:	59	DAVIESS															
489	RAW	11.3	39.9	46.6	13.5	4.0	12152.	0.0	0.0	0.0	0.0	55.3	11908.	2097.	4.2	0.	HVC BIT	LATENT
799	RAW	12.2	43.1	45.2	11.8	6.7	12595.	0.0	0.0	0.0	0.0	52.8	11692.	2080.	1.0	0.	HVC BIT	LATENT
	COUNTY:	91	HANCOCK															
506	RAW	11.0	43.9	46.4	9.7	5.6	13030.	0.0	0.0	0.0	0.0	52.7	12142.	2070.	3.5	54.	HVC BIT	LATENT
	COUNTY:	107	HOPKINS															
001	WASH	7.7	41.8	50.4	7.7	3.4	13289.	0.0	0.0	0.0	0.0	55.6	12864.	2181.	3.5	0.	HVC BIT	LATENT
480	RAW	6.4	38.9	47.1	14.0	4.8	12278.	0.0	0.0	0.0	0.0	56.4	12757.	2140.	4.0	0.	HVC BIT	LATENT
480	WASH	7.5	40.2	48.3	11.5	4.6	12713.	0.0	0.0	0.0	0.0	56.0	12722.	2193.	3.5	0.	HVC BIT	LATENT
483	RAW	6.0	40.3	45.7	14.0	3.3	12362.	0.0	0.0	0.0	0.0	54.5	12997.	2325.	4.5	0.	HVC BIT	LATENT
483	WASH	7.7	40.8	45.9	13.3	3.2	12476.	0.0	0.0	0.0	0.0	54.1	12864.	2284.	4.7	57.	HVC BIT	LATENT
484	RAW	6.7	40.9	49.0	10.1	4.0	12997.	5.4	75.9	1.5	8.5	55.7	12993.	2111.	5.0	57.	HVC BIT	LATENT

AVERAGE COALBED ANALYSES FOR STATE: 21 KENTUCKY (WEST)

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
484	WASH	7.5	43.0	50.3	6.7	3.4	13547.	5.2	75.6	1.5	8.2	54.8	13030.	2125.	4.4	57.	HVB BIT	LATENT
489	RAW	6.6	39.7	49.2	11.2	4.1	12866.	5.0	71.2	1.5	7.8	56.7	13018.	2070.	5.1	58.	HVB BIT	LATENT
489	WASH	7.2	40.7	50.1	9.2	3.5	13225.	5.0	73.3	1.6	8.1	56.3	13082.	2054.	5.1	56.	HVB BIT	LATENT
506	RAW	10.2	38.3	53.5	8.2	2.6	13366.	0.0	0.0	0.0	0.0	59.2	12739.	2155.	4.3	51.	HVC BIT	LATENT
506	WASH	11.1	41.7	54.2	4.1	1.8	14041.	5.4	78.3	1.9	8.8	57.0	12794.	2102.	3.9	51.	HVC BIT	LATENT
COUNTY:	177	MUHLENBERG																
001	RAW	7.6	40.7	49.0	10.3	4.0	12871.	0.0	0.0	0.0	0.0	55.8	12765.	2102.	0.0	0.	HVC BIT	LATENT
480	RAW	10.3	39.7	54.4	6.0	2.0	13585.	0.0	0.0	0.0	0.0	58.5	12722.	2300.	0.0	0.	HVC BIT	LATENT
480	WASH	11.3	40.0	52.6	7.4	2.0	13347.	0.0	0.0	0.0	0.0	57.5	12515.	2357.	0.0	0.	HVC BIT	LATENT
482	WASH	13.0	38.5	52.2	9.3	2.2	12880.	0.0	0.0	0.0	0.0	58.4	12035.	2700.	4.0	51.	HVC BIT	LATENT
483	RAW	7.4	36.7	46.1	17.3	3.9	11705.	0.0	0.0	0.0	0.0	57.4	12574.	2130.	4.6	0.	HVC BIT	LATENT
483	WASH	8.5	41.4	46.5	12.1	3.2	12638.	0.0	0.0	0.0	0.0	54.0	12743.	2245.	3.7	53.	HVC BIT	LATENT
484	RAW	7.4	42.1	47.8	10.1	4.1	12923.	0.0	0.0	0.0	0.0	54.4	12798.	2104.	4.6	53.	HVC BIT	LATENT
484	WASH	8.4	43.6	49.6	6.8	3.2	13497.	5.1	74.8	1.5	8.8	54.0	12876.	2127.	3.8	54.	HVC BIT	LATENT
489	RAW	7.7	40.0	49.0	11.0	4.0	12853.	5.1	72.6	1.6	8.5	56.3	12828.	2070.	5.0	57.	HVC BIT	LATENT
489	WASH	9.1	40.7	50.2	9.1	3.4	13188.	0.0	0.0	0.0	0.0	56.3	12752.	2056.	3.5	0.	HVC BIT	LATENT
506	RAW	8.7	41.0	50.1	8.9	3.4	13229.	5.1	76.5	1.7	8.8	56.0	12832.	2149.	3.0	0.	HVC BIT	LATENT
506	WASH	10.0	42.3	49.2	8.5	4.1	13335.	0.0	0.0	0.0	0.0	54.8	12608.	2005.	5.5	55.	HVC BIT	LATENT
905	RAW	7.0	43.1	48.0	8.9	3.5	13170.	0.0	0.0	0.0	0.0	53.7	13016.	2170.	3.5	46.	HVB BIT	LATENT
905	WASH	9.7	41.4	48.7	9.9	3.2	13033.	0.0	0.0	0.0	0.0	55.1	12641.	2118.	3.8	53.	HVC BIT	LATENT
COUNTY:	183	OHIO																
480	RAW	12.1	37.0	46.4	16.6	5.3	11640.	0.0	0.0	0.0	0.0	57.6	11519.	2080.	0.0	0.	HVC BIT	LATENT
484	WASH	11.7	40.7	49.8	9.5	2.5	13000.	0.0	0.0	0.0	0.0	56.0	12336.	2430.	3.0	51.	HVC BIT	LATENT
489	RAW	8.4	40.7	48.9	10.4	3.7	12925.	5.2	72.7	1.6	7.7	55.7	12729.	2087.	4.0	58.	HVC BIT	LATENT
489	WASH	9.4	42.4	49.7	8.0	3.3	13363.	5.3	74.3	1.6	8.2	54.9	12749.	2100.	4.3	55.	HVC BIT	LATENT
506	RAW	12.3	41.7	49.6	8.6	2.9	13385.	5.2	77.1	1.6	7.8	55.3	12447.	2120.	3.8	45.	HVC BIT	LATENT
506	WASH	11.0	47.1	47.2	5.7	3.0	13915.	0.0	0.0	0.0	0.0	50.7	12775.	2130.	0.0	51.	HVC BIT	LATENT
COUNTY:	225	UNION																
480	RAW	6.1	37.5	53.5	9.0	2.9	13370.	0.0	0.0	0.0	0.0	59.8	13444.	2130.	5.5	62.	HVB BIT	LATENT
484	RAW	8.5	40.5	47.7	11.8	4.1	12683.	4.9	71.1	1.4	7.7	55.4	12632.	2046.	6.5	56.	HVC BIT	LATENT

AVERAGE COALBED ANALYSES FOR STATE: 21 KENTUCKY (WEST)

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
489	RAW	4.1	38.0	50.2	11.8	3.9	12997.	4.9	69.9	1.5	6.8	58.3	13669.	2027.	6.2	59.	HVB BIT	LATENT
489	WASH	9.8	41.3	49.1	9.6	3.3	12992.	4.9	72.1	1.6	9.1	55.3	12541.	2064.	3.8	56.	HVC BIT	LATENT
900	RAW	4.3	35.9	44.9	19.2	4.4	11820.	0.0	0.0	0.0	0.0	57.6	13461.	2070.	7.0	0.	HVB BIT	LATENT
902	RAW	4.0	37.2	49.3	13.6	3.9	12745.	0.0	0.0	0.0	0.0	58.5	13682.	2070.	7.5	58.	HVB BIT	LATENT
902	WASH	3.2	40.7	50.5	8.8	2.9	13570.	0.0	0.0	0.0	0.0	56.3	14073.	2120.	0.0	0.	HVA BIT	LATENT
907	RAW	4.3	35.9	44.9	19.2	4.4	11820.	0.0	0.0	0.0	0.0	57.6	13461.	2070.	7.0	0.	HVB BIT	LATENT
	COUNTY:	233	WEBSTER															
480	WASH	6.5	39.9	52.3	7.8	3.0	13499.	0.0	0.0	0.0	0.0	57.6	13319.	2083.	5.4	64.	HVB BIT	LATENT
484	WASH	6.4	40.4	51.6	8.0	3.1	13455.	0.0	0.0	0.0	0.0	57.0	13314.	2166.	5.8	61.	HVB BIT	LATENT
489	RAW	4.1	38.3	49.9	11.8	3.9	12956.	4.7	69.4	1.5	6.3	58.0	13629.	2055.	6.8	61.	HVB BIT	LATENT
900	RAW	3.8	37.9	50.9	11.2	4.3	13153.	5.3	75.1	1.6	6.6	58.8	13732.	2090.	0.0	0.	HVB BIT	LATENT

AVERAGE COALBED ANALYSES FOR STATE: 24 MARYLAND

BED	TYPE ANAL	PROXIMATE MOI REC	PROXIMATE DRY VOL MATT	PROXIMATE DRY FIXD CARB	PROXIMATE DRY ASH	PROXIMATE DRY SUL	PROXIMATE DRY BTU	ULTIMATE DRY HYD	ULTIMATE DRY CAR	ULTIMATE DRY NIT	ULTIMATE DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
COUNTY:	1	ALLEGANY																
023	RAW	2.3	19.6	68.8	11.6	2.0	13710.	0.0	0.0	0.0	0.0	79.3	14977.	2553.	8.2	85.	LV BIT	LATENT
029	RAW	2.7	19.9	71.6	8.4	1.3	14276.	4.5	80.7	1.7	2.5	79.2	15070.	2727.	8.6	97.	LV BIT	MARGINAL
033	RAW	2.0	17.6	60.8	21.6	3.3	11890.	0.0	0.0	0.0	0.0	80.6	14560.	2595.	8.2	0.	LV BIT	LATENT
036	RAW	3.5	18.7	72.2	9.2	0.9	14140.	4.4	80.1	1.9	2.3	80.4	14952.	2883.	8.3	0.	LV BIT	MARGINAL
038	RAW	4.0	20.5	61.6	17.9	2.3	12173.	0.0	0.0	0.0	0.0	77.1	13993.	2487.	0.0	0.	MV BIT	LATENT
042	RAW	2.2	18.0	68.8	13.2	2.6	13327.	0.0	0.0	0.0	0.0	81.2	14752.	2327.	7.0	0.	LV BIT	LATENT
055	RAW	2.1	16.4	69.6	14.0	2.1	13321.	0.0	0.0	0.0	0.0	82.8	14990.	2556.	0.0	0.	LV BIT	LATENT
062	RAW	2.9	17.3	70.2	12.5	1.6	13645.	0.0	0.0	0.0	0.0	81.7	15015.	2490.	9.0	0.	LV BIT	LATENT
071	RAW	2.3	16.6	65.5	17.9	2.7	12490.	0.0	0.0	0.0	0.0	82.2	14620.	2720.	8.5	0.	LV BIT	LATENT
074	RAW	4.4	16.0	78.5	5.5	1.4	14770.	0.0	0.0	0.0	0.0	83.9	14784.	2360.	0.0	0.	LV BIT	MARGINAL
076	RAW	2.2	16.1	68.4	15.5	2.8	13030.	3.9	74.7	1.3	2.9	83.3	14818.	2635.	5.5	0.	LV BIT	LATENT
949	RAW	4.2	17.8	71.8	10.4	0.9	13710.	0.0	0.0	0.0	0.0	81.2	14592.	2910.	3.5	99.	LV BIT	MARGINAL
COUNTY:	23	GARRETT																
001	RAW	3.8	16.5	70.4	13.1	1.1	13490.	0.0	0.0	0.0	0.0	82.4	14861.	2820.	4.0	0.	LV BIT	LATENT
029	RAW	2.3	19.6	54.9	25.5	1.6	11280.	0.0	0.0	0.0	0.0	76.4	14796.	2910.	9.0	0.	MV BIT	LATENT
036	RAW	3.0	21.0	71.7	7.3	0.8	14420.	0.0	0.0	0.0	0.0	78.1	15034.	2910.	9.0	99.	LV BIT	PREMIUM
042	RAW	1.7	18.4	61.5	20.1	3.5	12125.	0.0	0.0	0.0	0.0	79.9	14583.	2367.	8.6	0.	LV BIT	LATENT
055	RAW	4.8	18.9	67.4	13.8	1.1	12715.	0.0	0.0	0.0	0.0	79.5	13943.	2215.	3.0	0.	LV BIT	LATENT
060	RAW	2.2	19.2	64.9	15.9	3.1	12980.	0.0	0.0	0.0	0.0	79.4	14778.	2180.	9.0	0.	LV BIT	LATENT
062	RAW	2.3	20.0	67.0	13.0	3.1	13469.	0.0	0.0	0.0	0.0	78.9	14795.	2206.	9.0	0.	LV BIT	LATENT
063	RAW	2.0	17.5	69.3	13.2	2.9	13461.	0.0	0.0	0.0	0.0	81.8	14899.	2368.	7.0	0.	LV BIT	LATENT
063	WASH	2.2	17.9	68.6	13.5	2.6	13434.	0.0	0.0	0.0	0.0	81.3	14926.	2517.	0.0	0.	LV BIT	LATENT
071	RAW	2.9	19.9	69.4	10.7	1.6	13867.	4.3	77.2	1.4	2.7	79.0	14942.	2671.	7.2	97.	LV BIT	MARGINAL
074	RAW	3.5	18.2	66.7	15.1	2.8	12890.	0.0	0.0	0.0	0.0	80.7	14366.	2370.	3.0	101.	LV BIT	LATENT
076	RAW	2.4	17.9	68.6	13.5	3.6	13350.	0.0	0.0	0.0	0.0	81.6	14656.	2400.	6.0	0.	LV BIT	LATENT

AVERAGE COALBED ANALYSES FOR STATE: 24 MARYLAND

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
084	RAW	2.4	20.3	66.4	13.3	2.9	13309.	4.1	77.1	1.2	2.3	78.5	14674.	2473.	8.8	91.	LV BIT	LATENT
084	WASH	1.7	16.8	70.6	12.6	2.1	13580.	0.0	0.0	0.0	0.0	82.5	15094.	0.	0.0	0.	LV BIT	LATENT
087	RAW	3.0	14.3	73.4	12.4	2.8	13615.	4.1	79.1	1.3	1.6	85.8	14770.	2270.	7.5	93.	LV BIT	LATENT
799	RAW	3.2	18.9	64.3	16.9	1.9	12755.	0.0	0.0	0.0	0.0	79.3	14704.	2670.	6.5	91.	LV BIT	LATENT
924	RAW	2.8	21.6	69.8	8.6	1.7	14230.	0.0	0.0	0.0	0.0	77.5	14964.	2670.	9.0	98.	MV BIT	MARGINAL
927	RAW	6.5	22.1	63.2	14.7	1.4	12670.	0.0	0.0	0.0	0.0	75.6	13719.	2910.	4.5	0.	MV BIT	LATENT
950	RAW	2.0	16.4	71.4	12.2	2.3	13645.	0.0	0.0	0.0	0.0	83.1	15007.	2340.	0.0	0.	LV BIT	LATENT

AVERAGE COALBED ANALYSES FOR STATE: 26 MICHIGAN

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
COUNTY:	17	BAY																
538	RAW	10.3	40.0	51.0	9.1	2.2	13255.	0.0	0.0	0.0	0.0	56.9	12776.	2175.	0.0	0.	HVC BIT	LATENT
538	WASH	17.0	38.4	55.4	6.2	1.9	13640.	0.0	0.0	0.0	0.0	59.7	11799.	2160.	0.0	0.	HVC BIT	LATENT
799	RAW	13.3	37.7	50.9	11.5	1.6	12830.	0.0	0.0	0.0	0.0	58.4	12274.	2311.	0.0	0.	HVC BIT	MARGINAL
COUNTY:	63	HURON																
799	RAW	10.5	39.7	46.0	14.4	9.0	12345.	0.0	0.0	0.0	0.0	56.1	11761.	2285.	0.0	0.	HVC BIT	LATENT
COUNTY:	111	MIDLAND																
799	RAW	12.1	36.9	52.0	11.1	1.8	12940.	0.0	0.0	0.0	0.0	59.4	12504.	0.	0.0	0.	HVC BIT	MARGINAL
COUNTY:	145	SAGINAW																
538	RAW	11.5	37.0	50.6	12.4	1.2	12750.	0.0	0.0	0.0	0.0	58.7	12657.	2260.	0.0	0.	HVC BIT	LATENT
538	WASH	16.2	37.7	55.5	6.8	0.9	13580.	0.0	0.0	0.0	0.0	60.1	12033.	2260.	0.0	0.	HVC BIT	PREMIUM
565	RAW	10.9	38.2	50.6	5.2	1.4	13890.	0.0	0.0	0.0	0.0	60.2	12860.	2220.	0.0	0.	HVC BIT	MARGINAL
565	WASH	14.3	37.5	57.5	5.1	1.2	13840.	0.0	0.0	0.0	0.0	61.0	12326.	2202.	0.0	0.	HVC BIT	MARGINAL
799	RAW	13.3	36.9	53.5	9.6	1.7	13189.	0.0	0.0	0.0	0.0	60.0	12362.	2207.	0.0	0.	HVC BIT	MARGINAL
COUNTY:	155	SHIAWASSEE																
538	RAW	13.9	36.0	52.6	11.4	1.7	12927.	0.0	0.0	0.0	0.0	60.4	12256.	2240.	0.0	0.	HVC BIT	MARGINAL
799	RAW	14.4	36.5	50.0	13.5	2.0	12605.	0.0	0.0	0.0	0.0	58.9	12109.	2208.	0.0	0.	HVC BIT	LATENT
COUNTY:	157	TUSCOLA																
799	RAW	11.4	41.2	52.7	6.1	3.1	13745.	0.0	0.0	0.0	0.0	56.9	12592.	2090.	0.0	0.	HVC BIT	LATENT
799	WASH	17.2	40.7	52.3	7.0	2.8	13600.	0.0	0.0	0.0	0.0	57.1	11730.	2080.	0.0	0.	HVC BIT	LATENT

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
	COUNTY:	1	ADAIR															
492	RAW	13.4	39.4	42.6	18.0	5.2	11498.	0.0	0.0	0.0	0.0	53.8	11369.	2047.	0.0	0.	HVC BIT	LATENT
	COUNTY:	11	BARTON															
513	RAW	5.1	35.2	55.1	9.8	4.1	13359.	0.0	0.0	0.0	0.0	62.4	13552.	2137.	0.0	0.	HVB BIT	LATENT
513	WASH	4.2	35.7	55.2	9.2	3.8	13585.	0.0	0.0	0.0	0.0	62.0	13869.	2040.	0.0	0.	HVB BIT	LATENT
540	RAW	5.8	34.5	49.3	16.2	4.7	12490.	0.0	0.0	0.0	0.0	60.8	13431.	2030.	7.5	57.	HVB BIT	LATENT
545	RAW	4.5	32.4	44.6	23.0	5.6	11270.	0.0	0.0	0.0	0.0	60.7	13249.	2200.	8.0	57.	HVB BIT	LATENT
925	RAW	5.2	30.4	41.6	28.0	4.6	10620.	4.1	58.8	5.5	4.5	60.9	13359.	2250.	6.0	65.	HVB BIT	LATENT
	COUNTY:	13	BATES															
482	RAW	8.9	34.9	48.5	16.6	3.3	12160.	0.0	0.0	0.0	0.0	59.8	12802.	2083.	0.0	0.	HVC BIT	LATENT
482	WASH	8.5	37.0	51.5	11.5	2.8	12982.	0.0	0.0	0.0	0.0	59.3	13054.	2118.	0.0	0.	HVB BIT	LATENT
492	RAW	14.6	35.4	51.5	13.1	2.6	12840.	0.0	0.0	0.0	0.0	60.5	12177.	2100.	5.5	70.	HVC BIT	LATENT
492	WASH	8.4	35.8	49.9	14.3	2.7	12585.	0.0	0.0	0.0	0.0	59.6	13086.	2104.	4.9	0.	HVB BIT	LATENT
504	RAW	6.4	38.1	51.7	10.2	3.2	13080.	0.0	0.0	0.0	0.0	58.7	13240.	0.	0.0	0.	HVB BIT	LATENT
	COUNTY:	19	BOONE															
492	WASH	11.6	41.4	46.8	11.8	4.7	12836.	0.0	0.0	0.0	0.0	54.5	12232.	2011.	5.0	63.	HVC BIT	LATENT
	COUNTY:	27	CALLAWAY															
492	RAW	11.4	40.6	46.1	13.4	6.0	12559.	0.0	0.0	0.0	0.0	54.9	12057.	2042.	0.0	0.	HVC BIT	LATENT
492	WASH	14.3	42.5	48.6	9.0	4.5	13173.	0.0	0.0	0.0	0.0	54.5	11827.	2003.	3.5	64.	HVC BIT	LATENT
	COUNTY:	47	CLAY															
484	RAW	12.9	38.6	45.0	16.4	4.2	11803.	0.0	0.0	0.0	0.0	55.5	11668.	2088.	0.0	0.	HVC BIT	LATENT
492	RAW	14.4	39.7	44.8	15.5	4.7	11777.	4.7	66.6	1.4	8.8	54.7	11238.	1953.	5.0	68.	HVC BIT	LATENT
	COUNTY:	61	DAVIESS															
484	RAW	12.1	41.9	45.5	12.6	5.5	12540.	0.0	0.0	0.0	0.0	53.6	11887.	2010.	0.0	0.	HVC BIT	LATENT
	COUNTY:	83	HENRY															
492	RAW	9.0	42.8	46.0	11.2	5.5	12872.	0.0	0.0	0.0	0.0	53.2	12486.	2010.	0.0	0.	HVC BIT	LATENT
509	RAW	9.0	40.4	42.6	17.0	4.8	11951.	0.0	0.0	0.0	0.0	53.0	12450.	2054.	2.5	58.	HVC BIT	LATENT

AVERAGE COALBED ANALYSES FOR STATE: 29 MISSOURI

BED	TYPE ANAL	MOI REC	PROXIMATE DRY VOL MATT	PROXIMATE DRY FIXD CARB	PROXIMATE DRY ASH	DRY SUL	DRY BTU	ULTIMATE DRY HYD	ULTIMATE DRY CAR	ULTIMATE DRY NIT	ULTIMATE DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
509	WASH	8.8	42.6	44.2	13.2	4.3	12550.	0.0	0.0	0.0	0.0	52.3	12628.	2006.	4.6	54.	HVC BIT	LATENT
799	RAW	12.9	40.5	52.7	6.8	1.5	13760.	0.0	0.0	0.0	0.0	57.1	12637.	2500.	0.0	0.	HVC BIT	MARGINAL
COUNTY:	101	JOHNSON																
001	WASH	8.0	44.3	45.0	10.7	4.5	12787.	0.0	0.0	0.0	0.0	51.5	12618.	1910.	0.0	0.	HVC BIT	LATENT
492	RAW	12.2	41.3	46.6	12.1	5.6	12560.	0.0	0.0	0.0	0.0	54.6	11826.	2064.	0.0	0.	HVC BIT	LATENT
492	WASH	12.7	44.4	47.4	8.2	4.2	13260.	0.0	0.0	0.0	0.0	52.7	12093.	2011.	0.0	0.	HVC BIT	LATENT
509	WASH	10.3	44.0	44.1	11.8	4.8	12739.	0.0	0.0	0.0	0.0	51.3	12339.	2007.	3.9	56.	HVC BIT	LATENT
979	RAW	8.9	45.4	39.7	14.9	6.0	11850.	0.0	0.0	0.0	0.0	48.1	11910.	2380.	0.0	0.	HVC BIT	LATENT
979	WASH	13.1	45.6	45.6	8.9	4.4	13145.	0.0	0.0	0.0	0.0	51.0	11973.	1930.	0.0	0.	HVC BIT	LATENT
COUNTY:	107	LAFAYETTE																
484	RAW	12.7	38.1	45.9	16.0	4.1	12000.	0.0	0.0	0.0	0.0	56.3	11851.	2055.	0.0	0.	HVC BIT	LATENT
COUNTY:	115	LINN																
509	RAW	10.5	41.2	42.2	16.5	6.5	11808.	5.1	70.0	1.2	7.2	52.5	11785.	2041.	0.0	0.	HVC BIT	LATENT
COUNTY:	121	MACON																
490	RAW	11.4	41.5	43.2	15.3	5.9	12115.	0.0	0.0	0.0	0.0	52.7	11882.	0.	0.0	0.	HVC BIT	LATENT
492	RAW	13.1	39.1	46.0	14.9	5.1	12026.	0.0	0.0	0.0	0.0	55.8	11566.	2073.	0.0	0.	HVC BIT	LATENT
492	WASH	11.4	42.7	47.3	10.0	4.5	12916.	0.0	0.0	0.0	0.0	53.7	12124.	2009.	3.8	62.	HVC BIT	LATENT
903	WASH	16.5	42.4	47.3	10.3	4.2	12932.	0.0	0.0	0.0	0.0	53.9	11472.	2020.	5.0	64.	HVC BIT	LATENT
COUNTY:	175	RANDOLPH																
492	RAW	9.8	40.2	46.9	12.9	5.0	12518.	0.0	0.0	0.0	0.0	55.4	12296.	2017.	3.0	62.	HVC BIT	LATENT
492	WASH	11.2	42.6	47.6	9.8	4.6	12961.	5.1	71.6	1.2	7.3	54.0	12175.	2017.	4.7	61.	HVC BIT	LATENT
COUNTY:	177	RAY																
484	RAW	12.3	39.4	44.7	15.9	5.2	11926.	0.0	0.0	0.0	0.0	54.9	11706.	2057.	0.0	0.	HVC BIT	LATENT
484	WASH	17.4	42.2	45.4	12.5	3.7	12330.	0.0	0.0	0.0	0.0	53.0	11086.	2105.	0.0	0.	HVC BIT	LATENT
COUNTY:	185	ST CLAIR																
509	RAW	5.3	37.1	40.8	22.1	5.8	11180.	0.0	0.0	0.0	0.0	54.7	12824.	0.	0.0	0.	HVC BIT	LATENT
509	WASH	6.8	41.6	45.8	12.6	3.6	12831.	4.8	70.4	1.1	6.8	53.7	13222.	2038.	6.2	53.	HVB BIT	LATENT

AVERAGE COALBED ANALYSES FOR STATE: 29 MISSOURI

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
	COUNTY:	217 VERNON																
490	RAW	5.2	39.0	49.8	11.2	4.3	13324.	0.0	0.0	0.0	0.0	57.4	13696.	2020.	0.0	0.	HVB BIT	LATENT
496	RAW	6.0	37.8	47.4	14.8	5.2	12643.	0.0	0.0	0.0	0.0	57.4	13280.	2067.	8.0	59.	HVB BIT	LATENT
499	RAW	3.5	43.5	44.7	11.8	6.1	12800.	0.0	0.0	0.0	0.0	52.2	13259.	2150.	7.5	51.	HVB BIT	LATENT
499	WASH	5.3	40.3	46.6	13.2	4.7	12776.	4.9	69.1	1.2	5.7	55.1	13355.	2129.	6.5	49.	HVB BIT	LATENT
504	RAW	3.1	39.4	45.8	14.8	6.8	12480.	0.0	0.0	0.0	0.0	55.8	13347.	0.	0.0	0.	HVB BIT	LATENT
504	WASH	7.6	38.6	46.6	14.8	5.2	12531.	0.0	0.0	0.0	0.0	56.4	12909.	2011.	6.6	56.	HVC BIT	LATENT
513	RAW	4.6	35.9	50.8	13.3	5.3	12860.	0.0	0.0	0.0	0.0	60.5	13489.	0.	0.0	0.	HVB BIT	LATENT
799	RAW	6.5	36.7	45.6	17.7	4.2	11870.	0.0	0.0	0.0	0.0	57.2	12935.	1970.	7.0	66.	HVC BIT	LATENT

AVERAGE COALBED ANALYSES FOR STATE: 30 MONTANA

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
COUNTY:	3	BIG HORN																
799	RAW	24.6	41.2	54.1	4.7	0.5	12475.	0.0	0.0	0.0	0.0	57.1	9739.	2284.	0.0	52.	SUBBIT B	
935	RAW	20.6	39.7	54.8	5.5	0.6	12440.	5.0	71.9	1.1	15.9	58.4	10313.	0.	0.0	0.	SUBBIT B	
COUNTY:	5	BLAINE																
799	RAW	24.5	37.1	51.9	11.0	0.6	11354.	0.0	0.0	0.0	0.0	59.0	9369.	2217.	0.0	0.	SUBBIT C	
COUNTY:	9	CARBON																
781	RAW	10.0	38.4	50.3	11.4	1.4	11893.	5.0	73.0	1.9	13.5	57.6	11870.	2103.	0.0	0.	HVC BIT	MARGINAL
781	WASH	12.1	38.7	52.9	8.3	1.5	12338.	0.0	0.0	0.0	0.0	58.4	11606.	2054.	0.0	50.	HVC BIT	MARGINAL
799	RAW	8.5	35.0	48.4	16.6	1.1	11330.	0.0	0.0	0.0	0.0	59.2	12250.	0.	0.0	0.	HVC BIT	LATENT
809	RAW	9.4	38.1	49.4	12.5	2.5	11697.	0.0	0.0	0.0	0.0	57.6	11773.	2040.	0.0	0.	HVC BIT	LATENT
811	RAW	9.1	39.7	50.0	10.3	2.2	12086.	0.0	0.0	0.0	0.0	56.7	11950.	2050.	0.0	0.	HVC BIT	LATENT
811	WASH	10.6	39.6	49.5	10.9	2.3	11928.	0.0	0.0	0.0	0.0	56.6	11650.	2050.	0.0	54.	HVC BIT	LATENT
812	RAW	11.5	40.6	49.2	10.2	1.9	12027.	4.9	69.9	1.9	14.8	55.6	11594.	2040.	0.0	0.	HVC BIT	LATENT
812	WASH	13.6	40.2	51.9	7.9	1.9	12440.	0.0	0.0	0.0	0.0	57.1	11400.	2072.	0.0	50.	HVC BIT	LATENT
814	RAW	9.8	38.7	48.2	13.2	2.4	11560.	0.0	0.0	0.0	0.0	56.6	11672.	2155.	0.0	0.	HVC BIT	LATENT
COUNTY:	13	CASCADE																
799	RAW	6.7	29.4	49.6	21.0	3.3	10768.	0.0	0.0	0.0	0.0	65.0	12288.	2864.	0.0	0.	HVC BIT	LATENT
816	RAW	4.2	32.3	46.6	21.1	4.2	10866.	0.0	0.0	0.0	0.0	61.3	12699.	2681.	0.0	0.	HVC BIT	LATENT
816	WASH	7.9	33.3	48.0	18.8	2.0	11345.	0.0	0.0	0.0	0.0	60.6	12590.	2910.	0.0	0.	HVC BIT	LATENT
COUNTY:	15	CHOUTEAU																
799	RAW	10.4	36.7	41.8	21.4	0.8	10017.	0.0	0.0	0.0	0.0	54.6	11221.	0.	0.0	0.	HVC BIT	LATENT
COUNTY:	17	CUSTER																
799	RAW	28.4	39.5	50.4	10.1	0.4	10990.	0.0	0.0	0.0	0.0	56.6	8505.	0.	0.0	0.	SUBBIT C	
COUNTY:	27	FERGUS																
799	RAW	12.0	34.5	49.8	15.7	1.2	10840.	0.0	0.0	0.0	0.0	60.2	11075.	0.	0.0	0.	HVC BIT	LATENT

AVERAGE COALBED ANALYSES FOR STATE: 30 MONTANA

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
	COUNTY:	29	FLATHEAD															
799	RAW	17.8	39.9	45.1	15.0	3.0	10880.	0.0	0.0	0.0	0.0	54.4	10035.	0.	0.0	0.	SUBBIT B	
	COUNTY:	41	HILL															
799	RAW	7.6	37.5	47.6	14.9	1.0	11306.	0.0	0.0	0.0	0.0	56.9	12144.	2340.	0.0	0.	HVC BIT	LATENT
	COUNTY:	65	MUSSELSHELL															
780	RAW	12.2	35.0	55.1	9.9	0.5	12414.	4.7	70.5	1.2	12.7	61.8	11969.	2404.	0.0	52.	HVC BIT	MARGINAL
780	WASH	14.1	34.8	55.3	9.8	0.8	12525.	0.0	0.0	0.0	0.0	62.1	11754.	2335.	0.0	0.	HVC BIT	MARGINAL
799	RAW	11.5	34.0	55.2	10.7	0.5	12213.	0.0	0.0	0.0	0.0	62.6	11998.	2412.	0.0	0.	HVC BIT	MARGINAL
805	RAW	15.1	35.4	54.2	10.5	1.0	12328.	0.0	0.0	0.0	0.0	61.3	11467.	2318.	0.0	0.	HVC BIT	MARGINAL
806	RAW	15.3	37.7	54.0	8.3	0.7	12480.	4.9	72.5	1.3	13.2	59.5	11367.	2482.	0.0	59.	HVC BIT	MARGINAL
807	RAW	18.9	35.0	54.8	10.2	1.0	11975.	4.5	70.9	1.2	13.6	61.8	10557.	2240.	0.0	54.	HVC BIT	MARGINAL
	COUNTY:	75	POWDER RIVER															
799	RAW	32.5	40.3	50.8	8.9	0.3	11206.	0.0	0.0	0.0	0.0	56.3	8065.	0.	0.0	0.	LIGNIT A	
	COUNTY:	79	PRAIRIE															
799	RAW	31.3	40.6	51.5	8.0	0.6	11395.	0.0	0.0	0.0	0.0	56.5	8280.	0.	0.0	0.	LIGNIT A	
	COUNTY:	83	RICHLAND															
799	RAW	37.5	40.5	47.9	11.6	1.1	10725.	4.1	64.1	1.1	18.4	55.0	7216.	2279.	0.0	54.	LIGNIT A	
	COUNTY:	87	ROSEBUD															
525	RAW	22.4	35.3	56.4	8.3	1.0	11815.	4.3	69.9	1.0	15.5	62.2	9770.	2150.	0.0	46.	SUBBIT B	
799	RAW	27.6	40.2	52.6	7.2	0.6	12053.	0.0	0.0	0.0	0.0	57.2	9191.	2223.	0.0	50.	SUBBIT C	
808	RAW	21.8	38.1	51.5	10.4	1.0	11755.	4.6	68.4	1.0	14.5	58.3	9984.	2243.	0.0	47.	SUBBIT B	
	COUNTY:	91	SHERIDAN															
799	RAW	39.0	41.2	49.5	9.3	0.8	11160.	0.0	0.0	0.0	0.0	55.2	7205.	2500.	0.0	0.	LIGNIT A	

AVERAGE COALBED ANALYSES FOR STATE: 32 NEVADA

BED	TYPE ANAL	MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
		********PROXIMATE********						********ULTIMATE********										
COUNTY: 9 ESMERALDA																		
799	RAW	2.7	23.1	23.7	53.2	1.7	6810.	3.0	37.3	0.9	3.9	56.3	14539.	2700.	0.0	0.	HVA BIT	LATENT
799	WASH	3.0	30.6	36.0	33.3	1.3	9897.	4.1	54.5	1.4	5.4	56.6	14498.	2747.	0.0	0.	HVA BIT	LATENT

AVERAGE COALBED ANALYSES FOR STATE: 35 NEW MEXICO

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
COUNTY:	1 BERNALILLO																	
775	RAW	21.4	41.1	50.2	8.7	1.0	12355.	0.0	0.0	0.0	0.0	55.6	10389.	2160.	0.0	0.	SUBBIT B	
COUNTY:	7 COLFAX																	
507	RAW	3.3	37.0	53.9	9.1	0.5	13600.	5.1	76.3	1.6	7.4	59.9	14463.	2350.	8.0	54.	HVA BIT	MARGINAL
771	RAW	3.2	38.6	48.7	12.7	0.6	13080.	0.0	0.0	0.0	0.0	56.6	14506.	2868.	0.0	0.	HVA BIT	LATENT
772	RAW	5.1	36.8	47.8	15.5	0.7	12336.	5.1	73.7	1.4	8.2	57.5	13814.	2863.	2.7	53.	HVB BIT	LATENT
773	RAW	1.9	35.0	50.5	14.5	0.7	12864.	5.4	72.7	1.4	7.2	60.0	14807.	2902.	4.8	52.	HVA BIT	LATENT
773	WASH	2.6	37.3	49.3	13.4	0.6	13002.	0.0	0.0	0.0	0.0	57.8	14639.	2870.	4.5	0.	HVA BIT	LATENT
799	RAW	5.6	38.9	50.2	10.9	0.6	13020.	5.0	72.5	1.5	9.0	57.0	13747.	2878.	3.0	0.	HVB BIT	MARGINAL
COUNTY:	27 LINCOLN																	
799	RAW	3.2	31.0	49.5	19.5	0.7	11905.	0.0	0.0	0.0	0.0	62.8	14392.	2455.	0.0	0.	HVA BIT	LATENT
COUNTY:	31 MCKINLEY																	
479	RAW	13.1	44.2	47.8	8.0	0.7	12700.	5.2	72.1	1.3	12.7	52.5	11862.	2275.	0.0	47.	HVC BIT	MARGINAL
774	RAW	13.1	40.7	48.7	10.6	0.6	12514.	5.0	67.5	1.3	11.6	55.1	11997.	2381.	0.0	55.	HVC BIT	MARGINAL
785	RAW	10.9	43.0	46.7	10.3	0.8	12637.	5.4	69.5	1.2	12.5	52.7	12394.	2648.	1.3	50.	HVC BIT	MARGINAL
799	RAW	11.4	41.8	47.6	10.6	0.7	12537.	5.1	71.1	1.2	12.3	53.8	12271.	2539.	1.4	54.	HVC BIT	MARGINAL
COUNTY:	39 RIO ARRIBA																	
799	RAW	3.3	39.3	50.7	10.0	1.7	13340.	5.3	73.9	1.6	7.9	57.1	14170.	2454.	3.9	46.	HVA BIT	MARGINAL
COUNTY:	43 SANDOVAL																	
775	RAW	16.4	39.5	48.7	11.8	1.0	11926.	0.0	0.0	0.0	0.0	56.0	11048.	2336.	0.0	0.	HVC BIT	MARGINAL
799	RAW	18.3	40.5	52.1	7.4	1.6	12502.	0.0	0.0	0.0	0.0	56.9	10789.	2136.	0.0	51.	HVC BIT	MARGINAL
COUNTY:	45 SAN JUAN																	
488	RAW	10.4	38.0	40.2	21.8	0.8	10670.	4.6	60.7	1.3	10.9	52.7	12014.	2733.	0.0	44.	HVC BIT	LATENT
777	RAW	10.4	42.7	52.1	5.2	0.8	13285.	5.2	76.2	1.6	12.4	55.4	12439.	2264.	1.1	53.	HVC BIT	PREMIUM
799	RAW	10.5	41.3	47.7	11.0	0.8	12521.	5.3	68.0	1.4	10.9	54.3	12452.	2623.	0.0	0.	HVC BIT	MARGINAL

AVERAGE COALBED ANALYSES FOR STATE: 35 NEW MEXICO

BED	TYPE ANAL	MOI REC	PROXIMATE DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	ULTIMATE DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
COUNTY:		49	SANTA FE															
776	RAW	4.2	5.7	85.8	8.5	0.9	13615.	0.0	0.0	0.0	0.0	94.8	14179.	2305.	0.0	0.	ANTHRA	
778	RAW	2.2	33.5	54.1	12.3	0.8	12998.	0.0	0.0	0.0	0.0	62.6	14498.	2322.	0.0	0.	HVA BIT	LATENT
799	RAW	3.0	20.1	69.8	10.2	1.0	13040.	0.0	0.0	0.0	0.0	78.7	14014.	2633.	1.0	50.	LV BIT	MARGINAL
COUNTY:		53	SOCORRO															
779	RAW	2.4	38.0	50.2	11.8	0.8	13118.	0.0	0.0	0.0	0.0	57.7	14521.	2812.	4.5	55.	HVA BIT	MARGINAL
COUNTY:		61	VALENCIA															
799	RAW	14.5	43.8	48.2	8.0	1.1	12495.	0.0	0.0	0.0	0.0	52.9	11418.	2237.	0.0	0.	HVC BIT	MARGINAL

AVERAGE COALBED ANALYSES FOR STATE: 38 NORTH DAKOTA

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
	COUNTY:	1	ADAMS															
799	RAW	33.3	41.3	42.6	16.1	1.9	10533.	0.0	0.0	0.0	0.0	51.9	7818.	2175.	0.0	56.	LIGNIT	A
	COUNTY:	11	BOWMAN															
564	RAW	41.4	42.3	43.0	14.7	1.4	10410.	4.4	61.9	0.9	16.7	51.3	6648.	2210.	0.0	0.	LIGNIT	A
799	RAW	43.4	43.6	44.7	11.7	1.5	10810.	0.0	0.0	0.0	0.0	51.4	6509.	2347.	0.0	54.	LIGNIT	A
	COUNTY:	13	BURKE															
799	RAW	34.1	39.6	47.4	13.0	0.7	10726.	4.4	63.5	1.1	16.0	55.3	7748.	2148.	0.0	41.	LIGNIT	A
	COUNTY:	15	BURLEIGH															
799	RAW	37.0	44.5	45.3	10.2	1.2	10837.	4.2	64.2	1.0	19.3	51.1	7263.	2385.	0.0	48.	LIGNIT	A
	COUNTY:	23	DIVIDE															
799	RAW	32.2	40.6	47.9	11.4	0.8	11067.	0.0	0.0	0.0	0.0	54.8	8132.	2175.	0.0	45.	LIGNIT	A
	COUNTY:	25	DUNN															
799	RAW	41.3	43.4	44.5	12.1	1.2	10624.	0.0	0.0	0.0	0.0	51.4	6684.	2361.	0.0	53.	LIGNIT	A
	COUNTY:	33	GOLDEN VALLEY															
799	RAW	41.3	45.4	44.7	9.9	1.2	10787.	0.0	0.0	0.0	0.0	50.2	6692.	2447.	0.0	48.	LIGNIT	A
	COUNTY:	37	GRANT															
799	RAW	34.4	41.2	42.1	16.7	2.7	10345.	0.0	0.0	0.0	0.0	51.8	7513.	2200.	0.0	51.	LIGNIT	A
	COUNTY:	41	HETTINGER															
799	RAW	39.6	41.8	42.7	15.6	2.3	10407.	0.0	0.0	0.0	0.0	51.7	6857.	2204.	0.0	52.	LIGNIT	A
	COUNTY:	53	MCKENZIE															
799	RAW	42.7	43.4	47.7	8.9	0.8	11042.	0.0	0.0	0.0	0.0	52.8	6656.	2315.	0.0	38.	LIGNIT	A
	COUNTY:	55	MCLEAN															
799	RAW	38.7	44.1	45.4	10.6	0.9	10786.	0.0	0.0	0.0	0.0	51.3	7054.	2401.	0.0	44.	LIGNIT	A

AVERAGE COALBED ANALYSES FOR STATE: 38 NORTH DAKOTA

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
	COUNTY:	57	MERCER															
569	RAW	36.7	42.0	47.6	10.4	1.4	10950.	4.2	66.2	0.9	16.9	53.9	7375.	2340.	0.0	0.	LIGNIT	A
799	RAW	34.2	41.5	47.7	10.8	1.1	10864.	4.3	65.2	0.9	18.3	54.2	7666.	2315.	0.0	54.	LIGNIT	A
	COUNTY:	59	MORTON															
799	RAW	39.1	42.4	43.7	13.8	1.7	10482.	4.5	65.6	1.1	20.2	51.7	6923.	2209.	0.0	45.	LIGNIT	A
	COUNTY:	61	MOUNTRAIL															
799	RAW	43.1	42.0	51.6	6.4	0.4	11310.	0.0	0.0	0.0	0.0	55.5	6678.	2420.	0.0	0.	LIGNIT	A
	COUNTY:	65	OLIVER															
799	RAW	36.0	40.5	42.4	17.1	1.5	10003.	4.4	65.2	0.9	17.6	52.3	7161.	2184.	0.0	50.	LIGNIT	A
	COUNTY:	89	STARK															
799	RAW	41.0	42.3	42.8	14.9	2.0	10417.	0.0	0.0	0.0	0.0	51.3	6677.	2137.	0.0	53.	LIGNIT	A
	COUNTY:	101	WARD															
575	RAW	38.8	41.5	50.7	7.8	0.3	10870.	4.4	66.0	1.1	20.4	55.4	6997.	2480.	0.0	0.	LIGNIT	A
799	RAW	38.0	42.1	48.3	9.6	0.4	10766.	0.0	0.0	0.0	0.0	54.0	7103.	2405.	0.0	59.	LIGNIT	A
	COUNTY:	105	WILLIAMS															
799	RAW	41.0	42.4	46.6	11.0	0.9	10869.	4.6	65.7	1.1	20.0	53.0	6846.	2230.	0.0	44.	LIGNIT	A

AVERAGE COALBED ANALYSES FOR STATE: 39 OHIO

BED	TYPE ANAL	MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
		********PROXIMATE********						********ULTIMATE********										
COUNTY:	9	ATHENS																
036	RAW	6.5	42.7	47.6	9.7	4.1	12903.	0.0	0.0	0.0	0.0	53.8	12868.	2012.	3.0	52.	HVC BIT	LATENT
071	RAW	8.5	39.8	50.0	10.3	3.2	12797.	5.0	69.6	1.2	8.6	56.8	12649.	2192.	4.2	50.	HVC BIT	LATENT
074	RAW	7.3	41.6	44.6	13.8	4.2	12200.	0.0	0.0	0.0	0.0	53.1	12584.	2080.	3.0	46.	HVC BIT	LATENT
080	RAW	8.4	38.1	52.0	9.9	1.5	12920.	5.0	72.8	1.5	10.0	58.5	12935.	2549.	1.5	45.	HVC BIT	MARGINAL
080	WASH	8.8	39.0	51.7	9.3	1.3	13028.	0.0	0.0	0.0	0.0	57.7	12912.	2674.	1.0	0.	HVC BIT	MARGINAL
COUNTY:	13	BELMONT																
001	RAW	5.5	36.6	49.4	14.0	2.2	12332.	0.0	0.0	0.0	0.0	58.7	13302.	2400.	0.0	0.	HVB BIT	LATENT
029	RAW	4.4	39.5	47.7	12.8	3.1	12713.	4.9	70.8	1.3	7.9	55.9	13579.	2289.	5.0	50.	HVB BIT	LATENT
033	RAW	5.1	38.5	48.6	12.9	3.2	12708.	0.0	0.0	0.0	0.0	57.1	13464.	2373.	4.5	52.	HVB BIT	LATENT
036	RAW	3.6	40.9	48.6	10.5	4.1	13136.	5.0	72.1	1.3	7.2	55.6	13652.	2084.	5.9	56.	HVB BIT	LATENT
036	WASH	3.6	42.1	49.3	8.7	4.0	13465.	5.2	74.3	1.3	7.0	55.0	13739.	2103.	5.9	56.	HVB BIT	LATENT
949	RAW	5.0	39.6	47.3	13.1	3.9	12648.	0.0	0.0	0.0	0.0	55.8	13353.	2147.	5.0	54.	HVB BIT	LATENT
COUNTY:	19	CARROLL																
060	RAW	6.3	37.4	49.6	13.0	2.3	12680.	0.0	0.0	0.0	0.0	58.2	13374.	2140.	2.0	53.	HVB BIT	LATENT
070	RAW	4.8	37.3	54.1	8.7	1.9	13575.	0.0	0.0	0.0	0.0	60.0	13938.	2320.	5.5	51.	HVB BIT	LATENT
071	RAW	6.6	39.0	52.5	8.5	2.3	13210.	0.0	0.0	0.0	0.0	58.2	13215.	2355.	4.5	52.	HVB BIT	LATENT
071	WASH	7.4	38.9	54.2	7.0	1.8	13440.	0.0	0.0	0.0	0.0	58.9	13149.	2212.	5.0	0.	HVB BIT	LATENT
080	RAW	6.9	40.6	49.2	10.2	4.3	13001.	0.0	0.0	0.0	0.0	56.0	12952.	2104.	4.5	51.	HVC BIT	LATENT
084	RAW	6.0	40.9	46.6	12.5	4.5	12619.	5.2	72.0	1.4	6.9	54.7	12999.	2123.	3.7	52.	HVC BIT	LATENT
COUNTY:	29	COLUMBIANA																
070	RAW	3.8	36.4	52.7	10.9	2.4	13313.	5.1	75.3	1.5	6.7	60.2	14116.	2163.	0.0	0.	HVA BIT	LATENT
071	RAW	6.5	35.1	52.4	12.6	2.6	12781.	0.0	0.0	0.0	0.0	61.2	13344.	2272.	5.1	58.	HVB BIT	LATENT
074	RAW	4.1	36.5	53.5	10.1	1.9	13450.	5.2	78.7	1.6	7.0	60.4	14142.	2217.	5.0	55.	HVA BIT	LATENT
080	RAW	5.4	36.7	52.7	10.6	3.2	13161.	0.0	0.0	0.0	0.0	60.2	13550.	2179.	5.9	55.	HVB BIT	LATENT
084	RAW	5.0	40.9	46.0	13.1	7.3	12780.	0.0	0.0	0.0	0.0	54.9	13051.	2060.	5.5	56.	HVB BIT	LATENT
103	RAW	5.1	43.5	47.8	8.8	4.5	13352.	0.0	0.0	0.0	0.0	53.5	13341.	2022.	0.0	0.	HVB BIT	LATENT

AVERAGE COALBED ANALYSES FOR STATE: 39 OHIO

BED	TYPE ANAL	MOI REC	PROXIMATE DRY VOL MATT	PROXIMATE DRY FIXD CARB	PROXIMATE DRY ASH	DRY SUL	DRY BTU	ULTIMATE DRY HYD	ULTIMATE DRY CAR	ULTIMATE DRY NIT	ULTIMATE DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
	COUNTY: 31	COSHOCTON																
001	RAW	5.0	44.1	43.4	12.5	5.5	12640.	0.0	0.0	0.0	0.0	51.0	13045.	0.	0.0	0.	HVB BIT	LATENT
071	RAW	8.8	43.3	49.5	7.2	4.0	13260.	0.0	0.0	0.0	0.0	54.3	12562.	2040.	3.5	53.	HVC BIT	LATENT
080	RAW	6.3	43.1	49.3	7.6	3.6	13204.	5.1	72.1	1.3	9.2	54.3	12670.	2153.	3.5	52.	HVC BIT	LATENT
080	WASH	7.8	45.8	48.5	5.7	3.5	13565.	0.0	0.0	0.0	0.0	52.1	12852.	2074.	3.5	0.	HVC BIT	LATENT
084	RAW	6.7	43.9	45.2	10.9	6.2	12857.	0.0	0.0	0.0	0.0	52.2	12696.	2247.	3.5	52.	HVC BIT	LATENT
	COUNTY: 53	GALLIA																
033	RAW	7.7	42.2	46.4	11.4	3.4	12584.	5.0	70.2	1.2	9.7	53.5	12688.	2300.	4.4	54.	HVC BIT	LATENT
033	WASH	6.7	43.7	47.4	8.9	2.7	13012.	5.2	73.9	1.3	9.9	52.9	13017.	2465.	4.5	0.	HVB BIT	LATENT
036	RAW	8.3	39.9	47.4	12.7	3.6	12358.	0.0	0.0	0.0	0.0	55.6	12510.	2106.	3.7	53.	HVC BIT	LATENT
084	RAW	8.7	39.8	43.1	17.1	4.9	11630.	0.0	0.0	0.0	0.0	53.7	12143.	2360.	2.5	46.	HVC BIT	LATENT
	COUNTY: 59	GUERNSEY																
036	RAW	4.6	42.0	45.6	12.4	4.9	12730.	0.0	0.0	0.0	0.0	53.5	13271.	2076.	4.3	55.	HVB BIT	LATENT
062	RAW	4.3	40.2	46.1	11.7	3.1	12740.	0.0	0.0	0.0	0.0	55.6	13451.	2190.	5.5	51.	HVB BIT	LATENT
062	WASH	8.0	42.1	49.7	8.2	3.3	13260.	0.0	0.0	0.0	0.0	55.1	12882.	2050.	4.0	51.	HVC BIT	LATENT
071	RAW	6.0	37.7	51.8	10.5	2.8	13022.	4.9	70.7	1.3	7.7	59.0	13343.	2290.	4.5	50.	HVB BIT	LATENT
949	RAW	3.8	40.6	47.0	12.4	4.7	12760.	0.0	0.0	0.0	0.0	55.1	13447.	2130.	5.5	52.	HVB BIT	LATENT
950	WASH	7.6	41.2	51.3	7.5	2.5	13460.	0.0	0.0	0.0	0.0	56.3	13138.	2080.	3.0	50.	HVB BIT	LATENT
	COUNTY: 67	HARRISON																
029	RAW	5.4	38.3	49.2	12.5	2.5	12697.	4.9	69.9	1.3	7.6	57.4	13448.	2381.	4.0	51.	HVB BIT	LATENT
033	RAW	6.1	38.9	48.5	12.6	2.7	12540.	0.0	0.0	0.0	0.0	56.6	13151.	2305.	5.0	55.	HVB BIT	LATENT
036	RAW	5.0	38.8	49.9	11.3	3.4	12965.	4.9	71.5	1.4	7.5	57.5	13483.	2150.	5.9	56.	HVB BIT	LATENT
036	WASH	4.5	41.0	51.5	7.5	2.6	13591.	0.0	0.0	0.0	0.0	56.5	13729.	2198.	5.7	51.	HVB BIT	LATENT
071	RAW	5.8	37.0	49.5	13.5	3.0	12555.	4.9	73.0	1.5	8.1	58.6	13305.	2129.	4.2	51.	HVB BIT	LATENT
074	RAW	3.4	38.7	52.7	8.6	3.0	13605.	5.1	74.5	1.5	6.2	58.6	14039.	21[illegible]3.	5.5	49.	HVA BIT	LATENT
074	WASH	3.4	39.6	53.1	7.2	2.5	13809.	0.0	0.0	0.0	0.0	58.1	14104.	22[illegible].	5.2	47.	HVA BIT	LATENT
949	RAW	8.4	36.6	51.9	11.5	1.8	12600.	0.0	0.0	0.0	0.0	59.6	12799.	2140.	3.5	50.	HVC BIT	MARGINAL
955	RAW	5.1	38.3	48.5	13.2	3.7	12705.	0.0	0.0	0.0	0.0	57.2	13440.	2130.	6.0	53.	HVB BIT	LATENT

AVERAGE COALBED ANALYSES FOR STATE: 39 OHIO

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
COUNTY:	73	HOCKING																
080	RAW	8.3	39.0	50.9	10.0	2.2	12902.	5.1	73.6	1.5	9.7	57.5	12870.	2351.	4.5	50.	HVC BIT	LATENT
084	RAW	9.9	41.3	48.5	10.2	2.8	12510.	0.0	0.0	0.0	0.0	55.0	12186.	2020.	1.5	45.	HVC BIT	LATENT
COUNTY:	75																	
080	RAW	9.1	40.0	52.6	7.4	3.2	13270.	0.0	0.0	0.0	0.0	57.8	12633.	1980.	3.0	0.	HVC BIT	LATENT
COUNTY:	79	JACKSON																
001	WASH	8.4	44.1	47.0	9.0	3.3	12917.	0.0	0.0	0.0	0.0	52.5	12603.	2142.	3.8	0.	HVC BIT	LATENT
071	RAW	8.7	40.2	49.4	10.4	3.8	12656.	0.0	0.0	0.0	0.0	56.3	12420.	2107.	4.5	46.	HVC BIT	LATENT
084	RAW	8.3	39.1	51.3	9.7	2.5	12950.	0.0	0.0	0.0	0.0	57.7	12824.	2325.	0.0	0.	HVC BIT	LATENT
087	RAW	8.5	47.1	47.5	5.4	3.3	13590.	0.0	0.0	0.0	0.0	50.9	12753.	2130.	0.0	0.	HVC BIT	LATENT
087	WASH	8.3	44.9	46.7	8.5	3.4	13012.	0.0	0.0	0.0	0.0	51.9	12610.	2135.	4.2	51.	HVC BIT	LATENT
095	RAW	8.3	45.2	46.6	8.2	3.9	13072.	0.0	0.0	0.0	0.0	51.7	12575.	2138.	3.5	50.	HVC BIT	LATENT
095	WASH	10.3	44.5	47.2	8.2	3.3	13085.	0.0	0.0	0.0	0.0	52.3	12380.	2275.	3.5	45.	HVC BIT	LATENT
121	RAW	11.1	38.2	57.2	4.7	1.1	13599.	0.0	0.0	0.0	0.0	60.4	12548.	2847.	0.0	0.	HVC BIT	MARGINAL
285	RAW	15.2	34.2	51.4	14.4	0.6	12070.	0.0	0.0	0.0	0.0	61.0	11729.	0.	0.0	0.	HVC BIT	LATENT
COUNTY:	81	JEFFERSON																
023	RAW	4.1	34.5	42.1	23.4	5.0	10980.	0.0	0.0	0.0	0.0	57.4	13125.	2250.	4.5	55.	HVB BIT	LATENT
036	RAW	4.6	38.2	51.3	10.5	3.2	13157.	5.1	73.9	1.4	7.2	58.5	13666.	2170.	6.5	55.	HVB BIT	LATENT
036	WASH	4.0	40.2	51.6	8.2	2.7	13512.	0.0	0.0	0.0	0.0	57.1	13824.	2177.	6.6	54.	HVB BIT	LATENT
060	RAW	5.7	37.7	51.1	11.2	2.2	13150.	0.0	0.0	0.0	0.0	58.6	13703.	2310.	6.0	52.	HVB BIT	LATENT
074	RAW	3.4	38.7	52.5	8.8	3.1	13532.	5.0	72.8	1.2	5.5	58.6	13986.	2313.	7.0	55.	HVB BIT	LATENT
080	RAW	3.6	37.8	52.0	10.3	2.8	13377.	5.0	73.0	1.4	6.4	59.0	14048.	2263.	6.5	53.	HVA BIT	LATENT
084	RAW	3.6	38.4	51.6	10.0	3.0	13401.	5.2	76.7	1.5	6.9	58.4	14015.	2198.	6.4	51.	HVA BIT	LATENT
084	WASH	3.4	40.3	51.9	7.9	2.6	13791.	5.2	76.7	1.6	6.7	57.1	14164.	2266.	5.5	0.	HVA BIT	LATENT
955	RAW	5.7	36.4	53.8	9.8	1.0	13300.	0.0	0.0	0.0	0.0	60.4	13802.	2705.	5.5	53.	HVB BIT	MARGINAL

AVERAGE COALBED ANALYSES FOR STATE: 39 OHIO

BED	TYPE ANAL	MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
		********PROXIMATE********						********ULTIMATE********										
	COUNTY:	87	LAWRENCE															
033	RAW	9.3	42.2	43.1	14.7	5.5	11810.	0.0	0.0	0.0	0.0	52.1	11833.	0.	0.0	0.	HVC BIT	LATENT
071	RAW	9.0	40.3	47.2	12.5	4.8	12410.	0.0	0.0	0.0	0.0	55.4	12293.	2062.	3.0	53.	HVC BIT	LATENT
084	RAW	7.4	45.7	47.8	6.5	2.6	13470.	0.0	0.0	0.0	0.0	51.8	13027.	2020.	0.0	0.	HVB BIT	LATENT
084	WASH	9.5	42.5	47.4	10.1	2.8	12702.	0.0	0.0	0.0	0.0	53.7	12430.	2175.	1.5	0.	HVC BIT	LATENT
095	RAW	6.9	40.4	42.4	17.2	4.4	11686.	0.0	0.0	0.0	0.0	52.8	12567.	2282.	0.0	0.	HVC BIT	LATENT
	COUNTY:	99	MAHONING															
001	RAW	4.6	38.9	55.3	5.8	1.8	13952.	0.0	0.0	0.0	0.0	59.3	13922.	2180.	5.5	0.	HVB BIT	LATENT
080	RAW	6.1	42.5	47.0	10.6	5.8	13033.	0.0	0.0	0.0	0.0	54.0	12958.	2033.	3.5	52.	HVC BIT	LATENT
084	RAW	5.2	35.8	46.9	17.3	3.1	12067.	0.0	0.0	0.0	0.0	58.4	13446.	2513.	4.6	55.	HVB BIT	LATENT
095	RAW	5.5	39.3	52.6	8.1	2.5	13593.	5.2	73.4	1.5	7.2	58.1	13684.	2257.	4.6	51.	HVB BIT	LATENT
	COUNTY:	105	MEIGS															
001	RAW	8.3	41.9	43.3	14.8	5.8	11950.	0.0	0.0	0.0	0.0	52.5	12113.	2090.	0.0	0.	HVC BIT	LATENT
033	RAW	6.8	41.3	46.1	12.6	3.3	12477.	5.0	70.8	1.3	9.6	53.9	12899.	2265.	3.9	52.	HVC BIT	LATENT
036	RAW	7.8	41.9	46.2	11.9	3.8	12432.	5.0	69.9	1.3	9.7	53.7	12530.	2070.	4.5	51.	HVC BIT	LATENT
	COUNTY:	115	MORGAN															
029	RAW	5.0	41.2	43.2	15.6	5.6	12100.	0.0	0.0	0.0	0.0	52.9	12919.	2115.	5.0	0.	HVC BIT	LATENT
036	RAW	9.3	40.6	45.3	14.1	4.5	11960.	0.0	0.0	0.0	0.0	54.2	12036.	2030.	0.0	0.	HVC BIT	LATENT
080	RAW	7.4	41.5	49.8	8.7	2.9	13143.	0.0	0.0	0.0	0.0	55.4	12972.	2176.	4.5	55.	HVC BIT	LATENT
080	WASH	8.0	42.4	48.9	8.6	2.1	13122.	5.3	75.5	1.4	9.7	54.3	12945.	2380.	4.5	0.	HVC BIT	LATENT
	COUNTY:	119	MUSKINGUM															
071	RAW	6.3	43.5	43.3	13.3	5.7	12432.	0.0	0.0	0.0	0.0	51.4	12711.	2153.	3.5	54.	HVC BIT	LATENT
080	RAW	7.0	42.5	46.3	11.3	4.4	12706.	5.4	74.2	1.5	7.9	53.4	12767.	2123.	3.5	53.	HVC BIT	LATENT
080	WASH	7.7	44.7	47.8	7.5	3.3	13321.	5.5	74.0	1.4	10.2	52.5	12887.	2161.	3.5	51.	HVC BIT	LATENT
087	RAW	5.3	46.5	44.1	9.4	4.2	13250.	0.0	0.0	0.0	0.0	49.7	13340.	2060.	2.5	44.	HVB BIT	LATENT

AVERAGE COALBED ANALYSES FOR STATE: 39 OHIO

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
	COUNTY:	121	NOBLE															
029	RAW	4.2	39.9	42.5	17.6	5.7	11844.	0.0	0.0	0.0	0.0	53.5	13056.	2102.	5.1	50.	HVB BIT	LATENT
071	RAW	5.4	36.4	53.9	9.7	2.7	13335.	0.0	0.0	0.0	0.0	60.8	13649.	2105.	0.0	0.	HVB BIT	LATENT
882	RAW	4.4	36.5	54.3	9.2	3.4	13343.	0.0	0.0	0.0	0.0	61.0	13650.	0.	0.0	0.	HVB BIT	LATENT
	COUNTY:	127	PERRY															
001	RAW	11.5	37.9	46.9	15.3	3.1	11915.	0.0	0.0	0.0	0.0	56.7	11986.	2490.	0.0	0.	HVC BIT	LATENT
071	RAW	7.6	43.1	50.5	6.4	2.3	13400.	0.0	0.0	0.0	0.0	54.6	12951.	2050.	0.0	0.	HVC BIT	LATENT
071	WASH	8.1	43.3	49.3	7.5	2.5	13235.	0.0	0.0	0.0	0.0	54.0	12842.	2180.	0.0	0.	HVC BIT	LATENT
080	RAW	8.5	40.6	49.2	10.2	2.7	12787.	4.9	69.9	1.4	9.8	55.8	12689.	2372.	3.3	49.	HVC BIT	LATENT
080	WASH	7.9	43.6	47.3	9.0	3.2	12994.	5.0	72.9	1.4	9.7	52.9	12760.	2236.	3.7	50.	HVC BIT	LATENT
084	RAW	9.0	41.9	48.5	9.6	3.5	12907.	5.0	69.8	1.5	9.1	54.6	12556.	2097.	3.6	50.	HVC BIT	LATENT
928	WASH	9.7	44.6	47.1	8.3	3.4	13070.	0.0	0.0	0.0	0.0	52.2	12437.	2212.	4.0	0.	HVC BIT	LATENT
	COUNTY:	133	PORTAGE															
095	RAW	6.0	40.6	48.2	11.3	3.5	12950.	0.0	0.0	0.0	0.0	55.5	13300.	2235.	4.0	50.	HVB BIT	LATENT
095	WASH	7.7	37.4	44.0	18.6	3.7	11710.	0.0	0.0	0.0	0.0	55.8	12733.	2575.	3.0	0.	HVC BIT	LATENT
	COUNTY:	151	STARK															
080	RAW	6.8	39.4	48.2	12.4	4.0	12613.	5.1	73.9	1.4	8.1	56.3	12929.	2204.	2.6	54.	HVC BIT	LATENT
084	RAW	6.6	41.6	46.6	11.8	6.5	12715.	0.0	0.0	0.0	0.0	54.6	12670.	2092.	4.2	53.	HVC BIT	LATENT
095	RAW	3.8	39.1	48.4	12.5	3.4	12630.	0.0	0.0	0.0	0.0	56.6	13497.	0.	0.0	0.	HVB BIT	LATENT
	COUNTY:	157	TUSCARAWAS															
080	RAW	6.4	41.1	47.5	11.4	4.2	12790.	0.0	0.0	0.0	0.0	54.8	12980.	2140.	3.7	52.	HVC BIT	LATENT
080	WASH	5.6	42.9	50.0	7.1	2.6	13581.	5.2	75.9	1.5	8.5	54.6	13478.	2184.	4.0	0.	HVB BIT	LATENT
084	RAW	7.5	42.3	46.8	10.9	4.4	12835.	5.3	73.3	1.3	8.7	53.8	12762.	2092.	3.2	52.	HVC BIT	LATENT
103	RAW	5.0	43.0	43.1	13.9	4.6	12475.	5.2	70.7	1.4	7.8	51.5	13172.	2077.	0.0	0.	HVB BIT	LATENT
884	RAW	9.3	41.5	45.8	12.7	4.3	12520.	0.0	0.0	0.0	0.0	53.8	12442.	2120.	3.0	0.	HVC BIT	LATENT
928	WASH	10.9	42.1	50.4	7.5	3.5	13180.	0.0	0.0	0.0	0.0	55.4	12262.	2055.	4.0	0.	HVC BIT	LATENT

AVERAGE COALBED ANALYSES FOR STATE: 39 OHIO

BED	TYPE ANAL	MOI REC	PROXIMATE DRY VOL MATT	PROXIMATE DRY FIXD CARB	PROXIMATE DRY ASH	DRY SUL	DRY BTU	ULTIMATE DRY HYD	ULTIMATE DRY CAR	ULTIMATE DRY NIT	ULTIMATE DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
	COUNTY: 163 VINTON																	
001	RAW	11.5	39.7	45.6	14.7	3.2	11700.	0.0	0.0	0.0	0.0	54.8	11671.	0.	0.0	0.	HVC BIT	LATENT
080	RAW	6.9	42.1	53.0	5.0	1.9	13523.	5.3	75.1	1.5	10.0	56.3	12743.	2100.	2.2	44.	HVC BIT	LATENT
084	RAW	9.5	38.1	45.9	16.0	5.2	11792.	0.0	0.0	0.0	0.0	56.5	12010.	2320.	3.0	47.	HVC BIT	LATENT
087	RAW	6.5	43.8	45.4	10.8	4.2	12819.	5.1	68.5	1.2	6.7	52.0	12916.	2251.	1.5	49.	HVC BIT	LATENT
087	WASH	8.6	45.5	45.5	9.0	3.5	13104.	0.0	0.0	0.0	0.0	50.9	12726.	2280.	3.4	47.	HVC BIT	LATENT
	COUNTY: 167 WASHINGTON																	
029	RAW	4.5	39.7	41.5	18.8	5.8	11770.	0.0	0.0	0.0	0.0	53.1	13116.	2073.	5.0	50.	HVB BIT	LATENT

AVERAGE COALBED ANALYSES FOR STATE: 40 OKLAHOMA

BED	TYPE ANAL	PROXIMATE MOI REC	PROXIMATE DRY VOL MATT	PROXIMATE DRY FIXD CARB	PROXIMATE DRY ASH	DRY SUL	DRY BTU	ULTIMATE DRY HYD	ULTIMATE DRY CAR	ULTIMATE DRY NIT	ULTIMATE DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
	COUNTY:	29	COAL															
558	RAW	7.4	40.8	47.4	11.8	4.0	12166.	4.8	70.1	1.7	10.4	55.0	12266.	2136.	0.0	0.	HVC BIT	LATENT
911	RAW	7.8	43.2	47.0	9.8	4.0	12400.	0.0	0.0	0.0	0.0	53.2	12191.	2320.	0.0	0.	HVC BIT	LATENT
	COUNTY:	35	CRAIG															
490	WASH	3.5	45.0	47.9	7.1	3.5	13910.	5.5	76.8	1.5	5.6	52.4	14032.	2050.	8.5	58.	HVA BIT	LATENT
496	RAW	8.7	33.1	55.6	11.3	0.6	13083.	0.0	0.0	0.0	0.0	63.4	13371.	2461.	5.2	62.	HVB BIT	MARGINAL
504	RAW	5.3	37.4	48.8	13.8	4.5	12890.	0.0	0.0	0.0	0.0	58.2	13594.	2300.	0.0	0.	HVB BIT	LATENT
507	RAW	5.5	36.1	48.8	15.1	6.0	12470.	0.0	0.0	0.0	0.0	59.6	13113.	1950.	8.5	57.	HVB BIT	LATENT
507	WASH	6.3	38.5	50.5	11.0	4.5	13290.	5.1	72.8	1.5	5.1	58.2	13425.	1960.	8.0	60.	HVB BIT	LATENT
521	RAW	5.2	39.5	50.3	10.1	5.6	13372.	0.0	0.0	0.0	0.0	57.5	13421.	2172.	6.8	61.	HVB BIT	LATENT
799	RAW	5.2	38.4	50.0	11.7	4.2	13072.	0.0	0.0	0.0	0.0	58.0	13514.	2002.	8.2	61.	HVB BIT	LATENT
	COUNTY:	61	HASKELL															
556	RAW	3.0	27.4	67.2	5.4	1.1	14623.	4.9	82.9	1.9	4.3	71.6	14889.	2163.	9.0	92.	MV BIT	MARGINAL
558	RAW	3.3	25.3	69.7	5.0	0.5	14800.	4.9	83.9	1.8	3.9	73.8	15032.	2280.	0.0	0.	MV BIT	PREMIUM
563	RAW	3.1	21.3	71.5	7.3	1.0	14352.	4.6	83.4	1.8	2.6	77.9	14914.	2242.	0.0	0.	MV BIT	PREMIUM
880	RAW	4.9	22.8	64.8	12.4	0.8	13483.	4.4	79.2	1.8	4.0	75.0	14576.	2182.	0.0	0.	MV BIT	LATENT
880	WASH	6.6	23.2	71.0	5.8	0.8	14680.	0.0	0.0	0.0	0.0	76.0	14460.	2140.	9.0	0.	MV BIT	PREMIUM
	COUNTY:	77	LATIMER															
558	RAW	3.4	31.8	58.8	9.4	3.0	13840.	5.1	77.3	1.7	4.1	66.1	14402.	2157.	9.0	86.	HVA BIT	LATENT
562	RAW	3.5	38.2	56.1	5.7	1.3	14082.	0.0	0.0	0.0	0.0	60.0	14269.	2141.	5.1	52.	HVA BIT	MARGINAL
563	RAW	4.0	36.5	55.1	8.4	2.0	13715.	5.4	80.9	2.1	6.6	61.0	14149.	2202.	0.0	0.	HVA BIT	LATENT
	COUNTY:	79	LE FLORE															
552	RAW	1.9	23.1	67.5	9.4	2.6	14019.	4.5	80.6	1.6	2.2	75.9	14896.	2404.	9.0	111.	MV BIT	LATENT
562	RAW	2.6	18.5	72.5	9.0	0.7	13995.	4.2	81.3	1.7	3.0	80.6	14961.	2300.	6.5	107.	LV BIT	MARGINAL
563	RAW	2.6	17.9	73.7	8.4	1.2	14212.	4.4	85.6	1.8	2.2	81.5	15003.	2273.	9.0	0.	LV BIT	MARGINAL

AVERAGE COALBED ANALYSES FOR STATE: 40 OKLAHOMA

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
COUNTY:	91	MCINTOSH																
527	WASH	2.3	34.9	55.8	9.3	4.3	13876.	0.0	0.0	0.0	0.0	63.0	14414.	2141.	8.0	71.	HVA BIT	LATENT
COUNTY:	101	MUSKOGEE																
556	RAW	2.5	29.2	60.4	10.4	4.0	13761.	4.9	80.2	1.8	4.4	69.1	14496.	2177.	0.0	0.	MV BIT	LATENT
COUNTY:	111	OKMULGEE																
496	RAW	5.7	37.0	56.7	6.3	2.0	13815.	5.2	77.5	1.9	7.7	61.2	13664.	2061.	3.5	0.	HVB BIT	LATENT
496	WASH	10.2	35.8	55.2	9.0	2.1	13267.	5.0	75.9	1.8	7.9	61.6	12804.	2127.	2.0	0.	HVC BIT	LATENT
COUNTY:	121	PITTSBURG																
558	RAW	3.6	36.1	55.8	8.1	0.8	13584.	5.2	79.5	2.0	7.8	61.3	14199.	2228.	0.0	0.	HVA BIT	MARGINAL
558	WASH	2.2	36.1	58.9	5.0	0.4	14267.	0.0	0.0	0.0	0.0	62.3	14690.	2245.	0.0	0.	HVA BIT	PREMIUM
563	RAW	4.2	38.2	52.2	9.5	2.7	13426.	5.3	77.6	1.9	6.1	58.7	13910.	2207.	0.0	0.	HVB BIT	LATENT
COUNTY:	131	ROGERS																
001	RAW	5.0	39.4	46.1	14.5	3.8	12490.	0.0	0.0	0.0	0.0	55.4	13414.	1990.	0.0	0.	HVB BIT	LATENT
473	RAW	4.9	38.4	48.0	13.6	4.6	12538.	4.9	69.5	1.7	6.3	57.2	13240.	1991.	0.0	0.	HVB BIT	LATENT
473	WASH	4.9	39.2	50.5	10.3	3.9	13227.	5.0	72.5	1.6	5.8	57.5	13556.	1967.	0.0	0.	HVB BIT	LATENT
490	RAW	5.9	34.8	59.4	5.8	0.9	13920.	0.0	0.0	0.0	0.0	63.6	13806.	0.	0.0	0.	HVB BIT	PREMIUM
496	RAW	6.5	34.4	59.2	6.4	0.7	13899.	5.2	79.1	1.9	7.4	63.8	13812.	2283.	5.5	63.	HVB BIT	PREMIUM
COUNTY:	135	SEQUOYAH																
556	RAW	2.8	21.3	72.2	6.6	0.6	14532.	4.4	80.9	1.7	3.2	77.8	15097.	2092.	9.0	0.	MV BIT	PREMIUM
COUNTY:	143	TULSA																
473	RAW	5.4	36.5	50.1	13.4	4.3	12777.	0.0	0.0	0.0	0.0	59.4	13435.	0.	0.0	0.	HVB BIT	LATENT
496	RAW	4.6	38.1	52.6	9.4	3.1	13365.	4.8	69.1	1.8	7.4	59.1	13702.	2000.	0.0	0.	HVB BIT	LATENT
COUNTY:	145	WAGONER																
496	RAW	5.1	34.6	58.3	7.1	0.7	13857.	5.5	82.7	2.0	7.0	63.3	14084.	2176.	0.0	0.	HVA BIT	PREMIUM

AVERAGE COALBED ANALYSES FOR STATE: 41 OREGON

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
COUNTY: 11 COOS																		
799	RAW	18.6	39.0	47.2	13.8	1.0	10857.	4.9	68.2	1.8	17.9	55.7	9959.	2483.	0.0	0.	SUBBIT B	
837	RAW	19.3	41.0	47.2	11.8	0.4	11367.	5.0	68.3	1.6	16.4	54.2	10184.	2182.	0.0	0.	SUBBIT B	

AVERAGE COALBED ANALYSES FOR STATE: 42 PENNSYLVANIA (BITUMINOUS)

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
COUNTY:	3 ALLEGHENY																	
029	RAW	2.4	35.6	53.0	11.4	2.3	13240.	5.1	73.5	0.7	7.0	60.9	14358.	2480.	0.0	0.	HVA BIT	LATENT
033	RAW	3.2	33.7	56.0	10.4	1.6	13245.	5.1	75.0	1.5	7.5	63.4	14148.	2740.	0.0	0.	HVA BIT	MARGINAL
036	RAW	3.4	36.8	54.5	8.8	1.7	13646.	5.1	77.2	1.5	7.0	60.5	14274.	2504.	7.2	55.	HVA BIT	MARGINAL
036	WASH	3.8	38.2	53.2	8.7	1.8	13658.	0.0	0.0	0.0	0.0	59.0	14190.	2478.	7.8	48.	HVA BIT	MARGINAL
063	RAW	2.2	34.8	43.5	21.7	3.4	11510.	0.0	0.0	0.0	0.0	57.6	14055.	2240.	0.0	0.	HVA BIT	LATENT
071	RAW	2.8	35.5	54.9	9.5	1.6	13716.	5.2	76.2	1.5	6.0	61.6	14578.	2410.	7.7	53.	HVA BIT	MARGINAL
071	WASH	2.7	36.6	55.4	8.0	1.5	13985.	5.3	79.2	1.4	6.1	60.9	14645.	2553.	7.5	0.	HVA BIT	MARGINAL
074	RAW	3.4	34.9	59.0	6.2	0.8	14510.	0.0	0.0	0.0	0.0	63.3	14876.	2530.	0.0	0.	HVA BIT	PREMIUM
952	RAW	2.2	37.5	54.8	7.8	2.7	14080.	5.3	79.0	1.5	4.4	60.3	14616.	2080.	0.0	0.	HVA BIT	LATENT
COUNTY:	5 ARMSTRONG																	
001	RAW	4.2	34.2	55.8	10.0	1.8	13405.	0.0	0.0	0.0	0.0	62.9	14072.	2414.	6.6	0.	HVA BIT	MARGINAL
036	RAW	2.3	35.3	55.0	9.7	1.7	13760.	5.1	76.0	1.6	5.9	61.8	14734.	2540.	0.0	0.	HVA BIT	MARGINAL
070	RAW	2.6	38.3	50.2	11.5	3.7	13373.	0.0	0.0	0.0	0.0	58.1	14281.	2160.	8.2	60.	HVA BIT	LATENT
071	RAW	3.5	33.7	55.1	11.2	2.3	13407.	5.0	75.5	1.4	5.6	63.2	14324.	2420.	7.5	60.	HVA BIT	LATENT
071	WASH	3.1	34.0	56.9	9.1	1.5	13860.	5.1	78.2	1.5	5.5	63.4	14625.	2638.	8.0	61.	HVA BIT	MARGINAL
074	RAW	3.5	35.4	55.2	9.4	2.8	13621.	5.1	75.4	1.4	5.6	62.1	14194.	2186.	7.0	57.	HVA BIT	LATENT
076	RAW	3.0	34.3	53.5	12.2	3.0	13327.	4.4	68.2	1.1	4.1	62.3	14386.	2482.	7.5	58.	HVA BIT	LATENT
080	RAW	3.4	34.8	49.8	15.3	2.8	12666.	4.6	62.9	1.2	4.1	60.3	14168.	2500.	7.2	54.	HVA BIT	LATENT
084	RAW	2.9	37.2	52.7	10.1	3.7	13574.	5.1	74.6	1.4	5.4	59.9	14231.	2247.	6.9	59.	HVA BIT	LATENT
084	WASH	2.6	37.5	53.4	9.1	2.5	13890.	5.0	77.4	1.5	5.0	59.7	14620.	2512.	7.5	60.	HVA BIT	LATENT
086	RAW	3.6	31.0	59.6	9.4	2.1	13030.	0.0	0.0	0.0	0.0	66.8	13643.	0.	0.0	0.	HVB BIT	LATENT
087	RAW	3.4	34.4	60.7	4.9	2.3	14030.	0.0	0.0	0.0	0.0	64.6	13986.	0.	0.0	0.	HVB BIT	LATENT
799	RAW	2.7	36.0	48.8	15.2	4.3	12650.	0.0	0.0	0.0	0.0	59.3	14015.	2180.	8.0	57.	HVA BIT	LATENT
886	RAW	3.3	34.5	55.9	9.6	2.1	13800.	0.0	0.0	0.0	0.0	62.8	14538.	2680.	7.5	55.	HVA BIT	LATENT
927	RAW	2.4	37.0	54.0	9.0	2.9	13869.	0.0	0.0	0.0	0.0	60.4	14535.	2295.	0.0	0.	HVA BIT	LATENT
927	WASH	3.1	37.4	53.2	9.5	2.7	13770.	0.0	0.0	0.0	0.0	59.7	14447.	2400.	8.5	57.	HVA BIT	LATENT
952	RAW	1.9	33.6	55.8	10.6	2.2	13652.	0.0	0.0	0.0	0.0	63.5	14752.	2400.	0.0	0.	HVA BIT	LATENT

AVERAGE COALBED ANALYSES FOR STATE: 42 PENNSYLVANIA (BITUMINOUS)

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
COUNTY:	7	BEAVER																
071	RAW	5.0	37.7	53.6	8.7	1.8	13540.	5.1	75.8	1.7	7.5	59.5	13879.	2283.	7.0	52.	HVB BIT	LATENT
076	RAW	3.2	40.8	52.0	7.2	3.1	14000.	5.4	77.1	1.7	5.5	56.9	14239.	2030.	0.0	0.	HVA BIT	LATENT
080	RAW	7.0	35.8	56.4	7.7	1.2	13383.	5.3	79.3	1.6	7.5	61.9	13342.	2469.	5.9	65.	HVB BIT	MARGINAL
084	RAW	4.0	37.3	51.9	10.7	2.7	13384.	0.0	0.0	0.0	0.0	59.3	14085.	2291.	7.3	54.	HVA BIT	LATENT
095	RAW	4.1	36.8	51.5	11.7	2.8	13305.	0.0	0.0	0.0	0.0	59.6	14130.	2265.	0.0	0.	HVA BIT	LATENT
103	RAW	3.6	36.6	48.5	14.9	4.4	12580.	4.9	68.9	1.3	5.6	58.7	13724.	2030.	0.0	0.	HVB BIT	LATENT
COUNTY:	9	BEDFORD																
001	RAW	1.2	16.9	65.0	18.1	2.6	12618.	0.0	0.0	0.0	0.0	81.8	15031.	2595.	0.0	0.	LV BIT	LATENT
001	WASH	0.9	17.5	71.0	11.6	1.9	13695.	0.0	0.0	0.0	0.0	81.8	15199.	0.	0.0	0.	LV BIT	LATENT
036	RAW	1.8	15.7	66.2	18.1	2.4	12340.	0.0	0.0	0.0	0.0	83.2	14616.	0.	0.0	0.	LV BIT	LATENT
070	RAW	1.5	18.2	75.9	6.0	0.7	14812.	0.0	0.0	0.0	0.0	81.3	15489.	2620.	0.0	0.	LV BIT	PREMIUM
071	RAW	1.5	16.9	68.5	14.5	2.4	13248.	4.0	73.3	1.3	1.5	82.2	15066.	2613.	8.5	0.	LV BIT	LATENT
071	WASH	2.7	17.6	72.1	10.3	1.7	13955.	0.0	0.0	0.0	0.0	81.7	14988.	2800.	0.0	0.	LV BIT	MARGINAL
084	RAW	1.5	16.6	73.0	10.4	1.5	13969.	4.3	84.4	1.4	2.2	82.7	15261.	2769.	7.7	83.	LV BIT	MARGINAL
087	RAW	1.2	18.8	67.8	13.4	1.8	13480.	0.0	0.0	0.0	0.0	79.9	15262.	2795.	0.0	0.	LV BIT	LATENT
927	RAW	1.5	18.6	69.1	12.4	2.1	13611.	0.0	0.0	0.0	0.0	80.4	15126.	2693.	0.0	0.	LV BIT	LATENT
COUNTY:	13	BLAIR																
001	RAW	7.5	27.4	60.8	11.8	1.6	13140.	0.0	0.0	0.0	0.0	70.1	13563.	2537.	8.5	0.	MV BIT	MARGINAL
071	RAW	2.7	29.9	61.2	8.9	2.3	14103.	4.9	81.0	1.5	3.8	68.3	14809.	2293.	0.0	0.	HVA BIT	LATENT
080	RAW	6.2	29.6	62.6	8.5	2.7	14010.	0.0	0.0	0.0	0.0	69.6	14021.	2140.	8.0	82.	MV BIT	LATENT
084	RAW	3.8	26.8	65.1	8.1	0.8	14110.	5.0	81.4	1.5	4.0	71.6	14709.	2910.	6.9	95.	MV BIT	MARGINAL
095	RAW	4.1	28.3	59.9	11.8	3.3	13457.	4.6	76.7	1.2	4.1	69.5	14231.	2305.	8.0	83.	MV BIT	LATENT
COUNTY:	15	BRADFORD																
087	RAW	2.1	18.4	69.5	12.1	1.1	13650.	4.2	78.1	1.1	3.4	80.3	15159.	2910.	0.0	0.	LV BIT	LATENT

AVERAGE COALBED ANALYSES FOR STATE: 42 PENNSYLVANIA (BITUMINOUS)

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
COUNTY:	19	BUTLER																
001	RAW	4.2	37.3	52.6	10.0	2.7	13335.	0.0	0.0	0.0	0.0	59.6	13891.	2246.	0.0	0.	HVB BIT	LATENT
070	RAW	3.2	41.0	50.7	8.3	4.0	13620.	0.0	0.0	0.0	0.0	56.4	13901.	0.	0.0	0.	HVB BIT	LATENT
071	RAW	3.5	35.3	53.6	11.1	2.3	13316.	5.1	76.4	1.5	6.2	61.4	14202.	2374.	7.3	57.	HVA BIT	LATENT
071	WASH	4.1	37.6	53.0	9.4	1.9	13618.	5.1	75.6	1.6	6.6	59.4	14201.	2410.	8.2	52.	HVA BIT	LATENT
074	RAW	4.0	35.0	55.7	9.3	1.8	13550.	0.0	0.0	0.0	0.0	62.3	14147.	2382.	6.5	53.	HVA BIT	LATENT
076	RAW	3.8	35.2	56.9	7.9	2.2	13678.	5.2	79.1	1.5	6.8	62.7	14033.	2440.	8.0	56.	HVA BIT	LATENT
080	RAW	4.4	37.0	52.8	10.2	3.0	13346.	5.1	74.0	1.4	5.5	59.9	13856.	2285.	6.1	52.	HVB BIT	LATENT
080	WASH	5.4	39.0	50.8	10.2	2.9	13420.	0.0	0.0	0.0	0.0	57.7	13793.	2290.	6.0	51.	HVB BIT	LATENT
084	RAW	4.3	38.0	49.4	12.7	3.6	13031.	0.0	0.0	0.0	0.0	57.9	13839.	2276.	1.5	55.	HVB BIT	LATENT
086	RAW	3.9	35.9	55.7	8.5	3.2	13545.	0.0	0.0	0.0	0.0	61.9	13857.	0.	0.0	0.	HVB BIT	LATENT
087	RAW	3.8	34.8	48.2	17.0	3.8	12107.	0.0	0.0	0.0	0.0	59.8	13588.	2505.	4.5	51.	HVB BIT	LATENT
095	RAW	4.5	36.7	52.0	11.4	2.7	13117.	4.9	71.4	1.3	6.7	59.8	13818.	2344.	5.6	55.	HVB BIT	LATENT
095	WASH	4.6	39.3	53.1	7.7	2.7	13860.	0.0	0.0	0.0	0.0	58.3	14003.	2092.	6.5	0.	HVA BIT	LATENT
883	RAW	4.2	37.6	54.5	8.0	1.7	13730.	0.0	0.0	0.0	0.0	59.9	14112.	2495.	6.0	52.	HVA BIT	MARGINAL
887	WASH	4.3	38.4	53.4	8.2	1.5	13730.	0.0	0.0	0.0	0.0	58.9	14156.	2460.	6.0	47.	HVA BIT	MARGINAL
927	RAW	11.1	35.6	51.7	12.7	1.4	12330.	0.0	0.0	0.0	0.0	60.2	12317.	2270.	3.5	0.	HVC BIT	LATENT
928	RAW	8.4	34.4	52.8	12.8	1.1	12600.	0.0	0.0	0.0	0.0	61.5	13074.	2680.	1.0	61.	HVB BIT	LATENT
952	RAW	5.4	32.7	57.3	10.0	1.6	13383.	4.9	76.3	1.4	7.0	64.6	13888.	2667.	7.0	64.	HVB BIT	MARGINAL
COUNTY:	21	CAMBRIA																
001	RAW	3.1	24.4	65.2	10.4	1.7	13835.	0.0	0.0	0.0	0.0	73.9	14800.	2522.	8.5	0.	MV BIT	MARGINAL
071	RAW	2.6	24.3	66.1	9.5	1.7	14054.	4.6	79.3	1.4	3.1	74.2	14973.	2435.	8.4	93.	MV BIT	MARGINAL
071	WASH	3.7	18.3	72.6	9.1	1.0	14250.	4.5	83.5	1.5	2.5	80.9	15009.	2736.	9.0	108.	LV BIT	MARGINAL
074	RAW	2.9	22.9	67.1	10.0	2.1	13955.	4.5	78.0	1.3	3.5	75.9	14837.	2456.	8.5	99.	MV BIT	LATENT
074	WASH	2.7	22.8	67.6	9.5	2.1	14057.	0.0	0.0	0.0	0.0	76.0	14910.	2355.	9.0	0.	MV BIT	LATENT
076	RAW	2.4	17.5	73.0	9.4	1.4	14096.	4.3	80.2	1.4	2.4	81.8	15068.	2610.	8.0	98.	LV BIT	MARGINAL
076	WASH	3.5	16.2	74.2	9.6	1.4	14060.	4.3	83.2	1.5	2.2	83.3	14878.	2553.	7.4	95.	LV BIT	MARGINAL
080	RAW	4.5	24.3	62.3	13.4	0.9	13360.	4.5	76.3	1.1	3.9	73.1	14671.	2870.	8.5	84.	MV BIT	LATENT

AVERAGE COALBED ANALYSES FOR STATE: 42 PENNSYLVANIA (BITUMINOUS)

BED	TYPE ANAL	MOI REC	PROXIMATE DRY VOL MATT	PROXIMATE DRY FIXD CARB	PROXIMATE DRY ASH	DRY SUL	DRY BTU	ULTIMATE DRY HYD	ULTIMATE DRY CAR	ULTIMATE DRY NIT	ULTIMATE DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
084	RAW	2.4	20.3	71.4	8.4	1.8	14301.	4.5	81.5	1.3	2.6	79.0	15048.	2565.	8.7	102.	LV BIT	LATENT
084	WASH	3.2	20.2	71.6	8.2	1.6	14353.	4.3	79.9	1.3	2.3	79.0	14968.	2684.	8.3	103.	LV BIT	MARGINAL
087	RAW	3.1	14.2	68.8	17.0	3.2	12290.	0.0	0.0	0.0	0.0	85.5	14007.	0.	0.0	0.	LV BIT	LATENT
880	RAW	2.6	19.7	67.7	12.7	2.9	13525.	0.0	0.0	0.0	0.0	79.3	14776.	0.	0.0	0.	LV BIT	LATENT
886	RAW	2.1	22.4	69.2	8.4	1.7	14310.	0.0	0.0	0.0	0.0	76.6	15132.	2570.	0.0	0.	MV BIT	MARGINAL
924	RAW	2.3	23.3	64.2	12.5	2.1	13563.	0.0	0.0	0.0	0.0	74.9	14943.	2556.	9.0	0.	MV BIT	LATENT
924	WASH	3.3	16.0	75.5	8.5	1.0	14283.	0.0	0.0	0.0	0.0	83.4	15022.	2863.	7.0	97.	LV BIT	MARGINAL
927	RAW	4.0	25.4	66.4	8.3	1.7	14295.	0.0	0.0	0.0	0.0	73.4	14774.	2630.	9.0	0.	MV BIT	MARGINAL
952	RAW	2.9	24.9	64.5	10.6	1.7	13907.	0.0	0.0	0.0	0.0	73.3	14938.	2563.	8.8	92.	MV BIT	MARGINAL
952	WASH	3.1	24.6	65.3	10.1	1.2	14090.	0.0	0.0	0.0	0.0	73.6	15094.	2780.	9.0	0.	MV BIT	MARGINAL
	COUNTY:	23	CAMERON															
095	RAW	5.5	30.9	58.3	10.8	3.5	13650.	0.0	0.0	0.0	0.0	66.9	14025.	0.	0.0	0.	HVA BIT	LATENT
	COUNTY:	27	CENTRE															
001	RAW	3.9	23.9	65.2	11.0	2.2	13655.	0.0	0.0	0.0	0.0	74.6	14495.	2447.	0.0	0.	MV BIT	LATENT
076	RAW	7.2	24.4	66.6	9.0	1.5	13720.	0.0	0.0	0.0	0.0	74.2	13802.	2550.	2.5	108.	MV BIT	MARGINAL
080	RAW	4.9	22.4	66.8	10.8	2.1	13703.	4.6	77.9	1.4	2.5	76.2	14373.	2537.	8.7	99.	MV BIT	LATENT
084	RAW	3.3	22.8	65.2	12.0	2.2	13569.	4.7	79.5	1.3	3.1	75.6	14684.	2533.	8.5	100.	MV BIT	LATENT
087	RAW	3.6	23.3	67.9	8.9	1.7	14102.	0.0	0.0	0.0	0.0	75.5	14745.	2605.	8.0	102.	MV BIT	MARGINAL
095	RAW	3.2	22.8	65.3	11.9	1.9	13564.	0.0	0.0	0.0	0.0	75.5	14704.	2708.	6.7	99.	MV BIT	LATENT
095	WASH	1.9	22.8	65.4	11.8	2.6	13460.	0.0	0.0	0.0	0.0	75.7	14709.	2460.	9.0	0.	MV BIT	LATENT
884	RAW	3.4	23.3	65.2	11.6	3.2	13480.	0.0	0.0	0.0	0.0	75.4	14337.	2120.	8.5	105.	MV BIT	LATENT
928	RAW	6.7	23.3	65.5	11.2	2.0	13540.	4.3	75.0	1.3	5.2	75.1	13981.	2330.	9.0	106.	MV BIT	LATENT
	COUNTY:	31	CLARION															
001	RAW	3.5	37.1	51.5	11.5	3.0	13173.	0.0	0.0	0.0	0.0	59.4	14033.	2202.	7.2	0.	HVA BIT	LATENT
001	WASH	3.4	41.0	50.5	8.6	2.7	13780.	0.0	0.0	0.0	0.0	56.1	14256.	2337.	6.9	0.	HVA BIT	LATENT
071	RAW	4.1	33.9	55.4	10.7	1.6	13402.	5.0	74.5	1.5	6.2	63.0	14232.	2438.	6.8	54.	HVA BIT	MARGINAL
074	RAW	5.9	35.1	54.4	10.5	1.9	13212.	4.8	73.6	1.5	6.2	61.8	13664.	2443.	7.2	57.	HVB BIT	LATENT

AVERAGE COALBED ANALYSES FOR STATE: 42 PENNSYLVANIA (BITUMINOUS)

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
076	WASH	3.5	36.9	56.3	6.8	1.1	13957.	0.0	0.0	0.0	0.0	61.0	14338.	2880.	0.0	0.	HVA BIT	MARGINAL
084	RAW	3.8	36.7	53.1	10.2	2.3	13489.	5.1	73.9	1.4	6.6	60.2	14209.	2471.	7.1	56.	HVA BIT	LATENT
084	WASH	4.3	40.4	51.3	8.2	2.6	13675.	0.0	0.0	0.0	0.0	56.8	14168.	2130.	0.0	0.	HVA BIT	LATENT
087	RAW	4.1	38.9	49.1	12.0	4.4	13158.	5.1	73.5	1.3	5.8	57.2	13797.	2190.	6.8	51.	HVB BIT	LATENT
087	WASH	4.6	40.1	48.9	11.0	3.6	13381.	0.0	0.0	0.0	0.0	56.2	13907.	2308.	7.0	50.	HVB BIT	LATENT
881	WASH	5.8	39.4	52.4	8.2	3.2	13890.	0.0	0.0	0.0	0.0	58.1	13865.	2150.	7.0	47.	HVB BIT	LATENT
882	RAW	4.2	34.0	56.6	9.4	1.0	13570.	0.0	0.0	0.0	0.0	63.2	14264.	2810.	6.5	54.	HVA BIT	MARGINAL
885	WASH	6.3	38.4	52.8	8.8	1.9	13430.	0.0	0.0	0.0	0.0	58.7	13571.	2460.	7.5	55.	HVB BIT	LATENT
926	RAW	3.7	38.2	52.4	9.4	3.2	13660.	0.0	0.0	0.0	0.0	58.9	14144.	2220.	0.0	0.	HVA BIT	LATENT
927	RAW	5.2	37.1	51.3	11.6	2.6	13210.	0.0	0.0	0.0	0.0	59.2	13858.	2360.	0.0	0.	HVB BIT	LATENT
COUNTY:	33	CLEARFIELD																
001	RAW	4.3	24.2	64.8	11.0	1.8	13596.	0.0	0.0	0.0	0.0	74.0	14438.	2501.	7.7	96.	MV BIT	MARGINAL
001	WASH	2.4	24.5	65.9	9.5	1.4	13977.	0.0	0.0	0.0	0.0	73.9	14965.	2633.	8.8	0.	MV BIT	MARGINAL
071	RAW	3.5	24.6	64.5	10.9	1.5	13763.	4.6	77.9	1.4	4.1	73.5	14761.	2545.	8.2	89.	MV BIT	MARGINAL
071	WASH	3.6	24.8	65.9	9.4	1.0	14137.	0.0	0.0	0.0	0.0	73.5	14969.	2817.	8.8	90.	MV BIT	MARGINAL
074	RAW	3.1	25.2	65.5	9.3	1.5	14037.	4.7	79.8	1.4	3.4	73.2	14856.	2595.	8.1	91.	MV BIT	MARGINAL
074	WASH	4.1	23.8	64.7	11.5	1.7	13670.	0.0	0.0	0.0	0.0	74.4	14651.	2760.	8.2	89.	MV BIT	MARGINAL
076	RAW	3.6	23.4	65.9	10.7	1.6	13914.	4.6	78.8	1.5	4.3	75.0	14865.	2545.	7.1	98.	MV BIT	MARGINAL
076	WASH	3.2	24.9	65.6	9.5	1.1	14060.	0.0	0.0	0.0	0.0	73.4	14946.	2910.	8.5	88.	MV BIT	MARGINAL
080	RAW	3.7	22.7	66.0	11.3	2.3	13691.	4.5	75.8	1.3	2.7	75.9	14606.	2474.	7.6	100.	MV BIT	LATENT
084	RAW	3.2	24.8	64.3	10.8	2.5	13724.	4.6	78.0	1.3	3.7	73.6	14624.	2494.	8.3	95.	MV BIT	LATENT
084	WASH	3.9	28.2	62.2	9.5	2.3	13967.	4.9	76.8	1.4	3.3	70.0	14567.	2373.	8.1	80.	MV BIT	LATENT
095	RAW	2.5	23.9	62.6	13.4	2.8	13251.	0.0	0.0	0.0	0.0	74.1	14641.	2469.	0.0	0.	MV BIT	LATENT
860	RAW	5.5	22.8	65.6	11.6	2.5	13720.	0.0	0.0	0.0	0.0	75.8	14361.	2370.	0.0	0.	MV BIT	LATENT
882	RAW	3.6	26.3	60.0	13.7	2.6	13330.	0.0	0.0	0.0	0.0	71.2	14607.	2180.	8.5	88.	MV BIT	LATENT
884	RAW	7.1	20.2	71.2	8.6	1.4	14280.	0.0	0.0	0.0	0.0	78.9	14335.	2780.	9.0	101.	LV BIT	MARGINAL
887	RAW	5.1	21.8	66.6	11.6	2.2	13610.	0.0	0.0	0.0	0.0	76.8	14353.	2780.	7.5	0.	MV BIT	LATENT
924	RAW	3.3	23.1	67.1	9.8	1.0	14050.	0.0	0.0	0.0	0.0	75.3	14993.	2670.	9.0	95.	MV BIT	MARGINAL
926	RAW	3.5	26.7	65.4	8.0	1.5	14265.	0.0	0.0	0.0	0.0	71.9	14810.	2380.	8.2	86.	MV BIT	MARGINAL

AVERAGE COALBED ANALYSES FOR STATE: 42 PENNSYLVANIA (BITUMINOUS)

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
926	WASH	3.4	24.2	66.4	9.4	1.1	14057.	0.0	0.0	0.0	0.0	74.2	14904.	2850.	0.0	0.	MV BIT	MARGINAL
928	RAW	3.0	21.9	63.5	14.6	2.6	13094.	0.0	0.0	0.0	0.0	76.2	14616.	2477.	8.1	101.	MV BIT	LATENT
928	WASH	3.9	21.1	70.5	8.4	2.1	14330.	0.0	0.0	0.0	0.0	78.2	14796.	2570.	9.0	0.	LV BIT	LATENT
952	RAW	4.0	24.1	66.8	9.1	1.0	14043.	4.7	81.3	1.4	3.3	74.4	14752.	2730.	8.1	91.	MV BIT	MARGINAL
COUNTY:		35	CLINTON															
074	RAW	3.8	24.9	67.4	7.7	2.1	14460.	0.0	0.0	0.0	0.0	74.1	14831.	2400.	9.0	112.	MV BIT	LATENT
076	RAW	5.2	24.6	66.1	9.3	2.4	14100.	0.0	0.0	0.0	0.0	74.2	14448.	2210.	8.5	104.	MV BIT	LATENT
080	RAW	6.7	23.9	65.1	10.9	2.9	13483.	4.4	75.5	1.2	4.4	74.7	13755.	2130.	6.5	121.	MV BIT	LATENT
084	RAW	7.4	22.5	66.9	10.6	2.9	13427.	4.4	76.5	1.2	2.3	76.5	13543.	2370.	8.3	109.	MV BIT	LATENT
084	WASH	6.5	21.8	71.3	6.9	1.9	14250.	0.0	0.0	0.0	0.0	77.6	14078.	2390.	0.0	0.	MV BIT	LATENT
928	RAW	4.1	22.4	66.6	11.0	2.4	13800.	0.0	0.0	0.0	0.0	76.3	14597.	2470.	9.0	100.	MV BIT	LATENT
COUNTY:		47	ELK															
001	RAW	3.9	33.0	58.0	9.0	1.8	13723.	0.0	0.0	0.0	0.0	64.6	14299.	2388.	6.4	0.	HVA BIT	MARGINAL
074	RAW	5.7	28.1	63.3	8.6	1.2	13560.	0.0	0.0	0.0	0.0	70.1	13858.	0.	0.0	0.	MV BIT	MARGINAL
080	RAW	3.1	32.7	58.9	8.4	2.4	14036.	5.1	77.8	1.7	3.0	65.3	14576.	2460.	8.0	84.	HVA BIT	LATENT
084	RAW	3.7	32.8	56.7	10.5	2.7	13711.	0.0	0.0	0.0	0.0	64.6	14435.	2394.	8.2	0.	HVA BIT	LATENT
084	WASH	3.1	39.9	52.3	7.9	2.5	13978.	0.0	0.0	0.0	0.0	57.6	14411.	2526.	0.0	0.	HVA BIT	LATENT
928	RAW	4.0	33.7	57.3	9.1	2.1	13824.	0.0	0.0	0.0	0.0	64.0	14359.	2414.	8.1	71.	HVA BIT	LATENT
COUNTY:		51	FAYETTE															
001	RAW	7.5	32.2	54.0	13.8	2.2	12360.	4.5	71.1	1.4	7.4	64.0	12969.	2230.	0.0	0.	HVC BIT	LATENT
029	RAW	3.8	33.0	53.1	13.9	3.2	12929.	5.0	72.7	1.4	4.5	63.2	14087.	2356.	8.1	66.	HVA BIT	LATENT
033	RAW	4.3	31.6	55.6	12.8	1.7	13040.	0.0	0.0	0.0	0.0	64.9	14149.	2605.	6.9	68.	HVA BIT	LATENT
033	WASH	4.9	31.5	59.2	9.4	1.2	13825.	0.0	0.0	0.0	0.0	66.1	14381.	2725.	8.5	66.	HVA BIT	MARGINAL
036	RAW	2.9	32.6	58.0	9.4	1.5	13820.	5.1	78.0	1.6	5.1	64.9	14670.	2638.	8.1	68.	HVA BIT	MARGINAL
036	WASH	6.6	31.7	60.2	8.1	1.3	14140.	0.0	0.0	0.0	0.0	66.3	14219.	2830.	8.5	72.	HVA BIT	MARGINAL
071	RAW	3.0	30.3	61.1	8.6	2.7	14090.	5.2	78.7	1.5	3.2	68.0	14652.	2250.	8.2	0.	HVA BIT	LATENT
074	RAW	2.8	25.9	58.7	15.4	2.1	12950.	0.0	0.0	0.0	0.0	71.0	14704.	2570.	8.0	74.	MV BIT	LATENT
076	RAW	2.5	24.9	65.3	9.8	2.8	14030.	4.6	78.7	1.3	2.8	73.8	14849.	2467.	8.5	106.	MV BIT	LATENT
084	RAW	2.9	25.6	63.9	10.5	2.6	13868.	5.0	80.1	1.3	3.1	72.8	14760.	2386.	8.8	76.	MV BIT	LATENT

AVERAGE COALBED ANALYSES FOR STATE: 42 PENNSYLVANIA (BITUMINOUS)

BED	TYPE ANAL	MOI REC	PROXIMATE DRY VOL MATT	PROXIMATE DRY FIXD CARB	PROXIMATE DRY ASH	DRY SUL	DRY BTU	ULTIMATE DRY HYD	ULTIMATE DRY CAR	ULTIMATE DRY NIT	ULTIMATE DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
084	WASH	2.2	25.7	61.9	12.4	3.1	13524.	4.7	78.3	1.4	5.1	72.4	14765.	2408.	8.2	88.	MV BIT	LATENT
884	RAW	7.1	20.2	71.2	8.6	1.4	14280.	0.0	0.0	0.0	0.0	78.9	14335.	2780.	9.0	101.	LV BIT	MARGINAL
921	RAW	3.4	32.6	50.5	16.9	2.2	12460.	4.6	69.4	1.4	5.5	62.3	14281.	2460.	8.0	61.	HVA BIT	LATENT
937	RAW	4.0	33.6	53.8	12.6	1.8	13150.	0.0	0.0	0.0	0.0	62.7	14266.	2610.	8.5	65.	HVA BIT	LATENT
COUNTY:	59	GREENE																
023	RAW	3.4	34.9	50.0	15.1	2.7	12654.	5.0	69.6	1.5	5.6	60.3	14112.	2603.	7.2	0.	HVA BIT	LATENT
029	RAW	2.8	34.5	53.6	11.9	1.9	13303.	5.0	74.3	1.6	5.8	61.9	14508.	2542.	7.9	60.	HVA BIT	LATENT
036	RAW	2.5	35.8	54.4	9.8	2.5	13709.	5.1	77.2	1.6	5.4	61.3	14556.	2225.	8.0	64.	HVA BIT	LATENT
949	RAW	2.6	35.0	54.7	10.3	2.4	13612.	4.9	74.6	1.3	4.9	62.1	14520.	2297.	0.0	0.	HVA BIT	LATENT
COUNTY:	61	HUNTINGDON																
001	WASH	1.4	16.3	74.3	9.4	1.4	14073.	0.0	0.0	0.0	0.0	83.2	15212.	2780.	0.0	0.	LV BIT	MARGINAL
071	RAW	2.0	18.3	70.1	11.6	1.6	13740.	0.0	0.0	0.0	0.0	80.7	15112.	0.	0.0	0.	LV BIT	MARGINAL
087	RAW	1.3	19.1	70.5	10.4	1.4	13840.	0.0	0.0	0.0	0.0	79.9	15156.	0.	0.0	0.	LV BIT	MARGINAL
885	RAW	2.9	17.5	71.7	10.7	1.9	13902.	0.0	0.0	0.0	0.0	81.8	14936.	2680.	7.0	0.	LV BIT	LATENT
885	WASH	4.4	15.3	76.0	8.7	1.5	14243.	0.0	0.0	0.0	0.0	84.4	14747.	2800.	0.0	0.	LV BIT	MARGINAL
COUNTY:	63	INDIANA																
001	RAW	4.1	28.1	60.5	11.4	1.6	13461.	0.0	0.0	0.0	0.0	69.4	14407.	2504.	6.4	0.	MV BIT	MARGINAL
001	WASH	1.3	28.8	59.5	11.7	1.3	13550.	0.0	0.0	0.0	0.0	68.4	15085.	0.	0.0	0.	HVA BIT	MARGINAL
036	RAW	3.3	32.5	54.0	13.6	1.5	13019.	4.7	72.2	1.5	6.0	63.6	14454.	2725.	7.7	62.	HVA BIT	LATENT
071	RAW	2.6	28.5	61.2	10.3	2.0	13829.	4.7	75.3	1.4	3.7	69.4	14834.	2475.	7.7	78.	MV BIT	LATENT
071	WASH	2.4	28.7	61.6	9.7	1.6	13966.	4.9	81.0	1.5	3.4	69.2	14951.	2626.	8.5	88.	MV BIT	MARGINAL
074	RAW	3.1	26.4	62.7	10.9	1.8	13759.	4.7	76.9	1.3	3.7	71.6	14780.	2564.	8.1	86.	MV BIT	MARGINAL
074	WASH	3.5	25.7	65.5	8.8	1.2	14145.	4.7	78.4	1.5	3.3	72.7	14860.	2773.	8.6	89.	MV BIT	MARGINAL
076	RAW	4.1	27.6	61.5	10.9	1.7	13699.	0.0	0.0	0.0	0.0	70.2	14560.	2880.	8.0	77.	MV BIT	MARGINAL
084	RAW	2.5	24.5	64.7	10.7	3.1	13835.	4.6	75.3	1.2	2.3	74.1	14762.	2373.	8.3	95.	MV BIT	LATENT
084	WASH	3.0	26.1	65.1	8.9	1.9	14201.	4.7	79.8	1.3	3.3	72.5	14904.	2543.	8.5	95.	MV BIT	LATENT
880	RAW	4.6	27.9	60.4	11.7	2.1	13400.	0.0	0.0	0.0	0.0	69.7	14244.	2580.	0.0	0.	MV BIT	LATENT
882	RAW	3.9	28.2	60.9	10.9	2.0	13700.	0.0	0.0	0.0	0.0	69.6	14563.	2420.	8.5	76.	MV BIT	LATENT

AVERAGE SAMPLES

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
926	RAW	3.8	28.1	61.8	10.1	2.7	13824.	0.0	0.0	0.0	0.0	70.0	14487.	2247.	8.0	91.	MV BIT	LATENT
926	WASH	3.7	24.2	66.0	9.7	1.2	14007.	4.7	80.5	1.4	2.8	74.1	14839.	2773.	9.0	97.	MV BIT	MARGINAL
927	RAW	3.2	28.5	60.6	10.9	1.5	13740.	0.0	0.0	0.0	0.0	69.1	14796.	2610.	8.0	87.	MV BIT	MARGINAL
927	WASH	2.3	22.8	66.9	10.3	2.2	13960.	0.0	0.0	0.0	0.0	75.9	14983.	2480.	9.0	0.	MV BIT	LATENT
952	RAW	2.5	29.9	60.1	10.0	1.5	13880.	4.9	80.0	1.5	4.8	67.7	14940.	2632.	7.5	76.	HVA BIT	MARGINAL
952	WASH	3.3	30.3	59.6	10.1	1.4	13728.	5.1	80.8	1.5	4.2	67.2	14637.	2730.	9.0	75.	HVA BIT	MARGINAL
COUNTY:	65	JEFFERSON																
001	RAW	4.2	32.3	57.0	10.7	1.6	13388.	0.0	0.0	0.0	0.0	64.8	14193.	2433.	5.9	0.	HVA BIT	MARGINAL
001	WASH	3.1	34.5	56.9	8.6	2.0	13844.	0.0	0.0	0.0	0.0	63.1	14468.	2225.	0.0	0.	HVA BIT	LATENT
071	RAW	5.3	30.8	58.0	11.2	1.5	13306.	4.8	72.5	1.4	6.5	66.4	14036.	2565.	7.6	68.	HVA BIT	MARGINAL
071	WASH	4.1	32.5	59.1	8.4	1.0	14010.	0.0	0.0	0.0	0.0	65.3	14584.	2707.	8.0	0.	HVA BIT	MARGINAL
074	RAW	3.1	31.8	58.9	9.3	1.9	13853.	5.0	76.8	1.4	4.9	65.9	14608.	2498.	7.4	69.	HVA BIT	LATENT
076	RAW	3.1	28.2	63.6	8.2	0.9	14110.	0.0	0.0	0.0	0.0	70.0	14831.	2890.	8.0	76.	MV BIT	MARGINAL
080	RAW	4.6	32.9	61.5	5.7	0.6	14340.	0.0	0.0	0.0	0.0	65.6	14448.	2670.	5.7	59.	HVA BIT	PREMIUM
084	RAW	3.3	32.9	57.0	10.1	1.4	13675.	5.1	77.4	1.5	6.0	64.3	14593.	2706.	7.5	67.	HVA BIT	MARGINAL
084	WASH	4.6	38.1	52.9	9.0	2.7	13826.	5.1	76.9	1.4	4.3	59.1	14163.	2288.	7.3	73.	HVA BIT	LATENT
926	RAW	5.1	33.1	58.6	8.3	2.1	13900.	0.0	0.0	0.0	0.0	64.8	14139.	2340.	0.0	0.	HVA BIT	LATENT
926	WASH	2.6	34.6	55.1	10.3	2.8	13750.	0.0	0.0	0.0	0.0	62.6	14621.	2130.	8.0	0.	HVA BIT	LATENT
COUNTY:	73	LAWRENCE																
080	RAW	4.6	37.7	50.9	11.4	3.7	13036.	0.0	0.0	0.0	0.0	58.7	13589.	2096.	5.6	53.	HVB BIT	LATENT
080	WASH	4.2	40.0	56.1	4.0	1.8	14305.	0.0	0.0	0.0	0.0	58.9	14074.	2195.	6.5	55.	HVA BIT	MARGINAL
084	RAW	4.5	37.1	50.9	12.0	2.5	12987.	0.0	0.0	0.0	0.0	59.0	13809.	2363.	6.1	52.	HVB BIT	LATENT
084	WASH	4.0	38.8	54.0	7.2	1.6	13805.	0.0	0.0	0.0	0.0	58.9	14118.	2700.	7.5	55.	HVA BIT	MARGINAL
095	RAW	5.3	38.1	51.2	10.7	2.8	13146.	0.0	0.0	0.0	0.0	58.4	13597.	2204.	5.1	49.	HVB BIT	LATENT
COUNTY:	83	MCKEAN																
103	RAW	5.7	33.0	52.5	14.5	3.2	12703.	0.0	0.0	0.0	0.0	63.0	13617.	2420.	1.0	58.	HVB BIT	LATENT
COUNTY:	85	MERCER																
001	RAW	6.4	35.8	53.6	10.6	1.9	13130.	0.0	0.0	0.0	0.0	60.9	13517.	2290.	0.0	0.	HVB BIT	LATENT
080	RAW	4.7	37.2	53.2	9.6	1.6	13360.	0.0	0.0	0.0	0.0	59.7	13914.	2630.	5.0	52.	HVB BIT	MARGINAL
084	RAW	5.4	37.0	50.9	12.1	2.2	13003.	0.0	0.0	0.0	0.0	59.0	13727.	2392.	6.0	50.	HVB BIT	LATENT

AVERAGE COALBED ANALYSES FOR STATE: 42 PENNSYLVANIA (BITUMINOUS)

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
095	RAW	5.1	39.8	50.5	9.6	3.8	13314.	5.2	76.0	1.4	7.4	57.1	13524.	2197.	4.8	49.	HVB BIT	LATENT
095	WASH	4.8	40.5	51.7	7.8	3.5	13610.	0.0	0.0	0.0	0.0	57.1	13631.	2123.	0.0	0.	HVB BIT	LATENT
COUNTY:	111	SOMERSET																
001	RAW	3.2	19.0	69.8	11.3	1.7	13671.	0.0	0.0	0.0	0.0	80.0	14743.	2619.	5.5	98.	LV BIT	MARGINAL
001	WASH	2.8	17.4	72.3	10.4	1.4	13886.	0.0	0.0	0.0	0.0	81.8	14934.	2664.	7.0	0.	LV BIT	MARGINAL
029	RAW	2.8	21.5	67.6	11.0	1.4	13807.	4.4	77.8	1.7	3.0	77.1	14969.	2749.	8.8	92.	MV BIT	MARGINAL
029	WASH	2.6	21.7	69.6	8.8	0.9	14235.	0.0	0.0	0.0	0.0	77.1	15142.	2910.	0.0	0.	MV BIT	MARGINAL
033	RAW	4.6	20.4	62.3	17.4	2.0	12275.	3.9	70.7	1.6	4.4	77.3	13957.	2560.	0.0	88.	MV BIT	LATENT
036	RAW	3.9	20.9	66.1	13.0	1.6	13400.	4.3	75.3	1.6	2.6	77.5	14647.	2619.	7.9	91.	MV BIT	LATENT
038	RAW	3.8	20.9	69.2	9.9	0.8	14007.	0.0	0.0	0.0	0.0	77.7	14901.	2877.	8.8	93.	MV BIT	MARGINAL
067	RAW	4.0	19.4	70.3	10.3	2.4	13820.	4.0	76.7	1.4	3.6	79.9	14514.	2294.	6.6	105.	LV BIT	LATENT
071	RAW	2.7	18.4	69.6	12.0	1.7	13652.	4.3	78.6	1.4	2.7	80.5	14952.	2646.	8.1	97.	LV BIT	MARGINAL
071	WASH	6.9	20.5	67.2	12.3	1.9	13417.	4.3	76.7	1.4	3.4	78.1	13999.	2507.	6.5	101.	LV BIT	LATENT
074	RAW	2.9	17.9	72.3	9.9	1.6	14031.	4.3	80.3	1.3	2.6	81.4	14980.	2607.	8.8	102.	LV BIT	MARGINAL
076	RAW	2.5	17.2	71.6	11.2	2.1	13781.	4.2	78.6	1.3	2.1	82.2	14940.	2527.	7.6	98.	LV BIT	LATENT
076	WASH	2.6	17.4	71.7	10.9	1.4	13836.	4.3	80.8	1.5	2.7	81.7	15013.	2766.	9.0	94.	LV BIT	MARGINAL
080	RAW	3.4	17.5	68.1	14.4	2.0	13200.	4.2	76.6	1.2	1.9	81.4	14713.	2662.	3.5	93.	LV BIT	LATENT
080	WASH	3.4	17.7	70.9	11.4	1.8	13750.	0.0	0.0	0.0	0.0	81.5	14816.	2560.	9.0	102.	LV BIT	MARGINAL
084	RAW	2.8	17.5	71.8	10.7	1.9	13861.	4.2	79.0	1.3	2.2	81.8	14900.	2580.	8.1	105.	LV BIT	LATENT
084	WASH	3.0	17.7	73.2	9.1	1.1	14129.	0.0	0.0	0.0	0.0	81.5	15006.	2742.	7.2	105.	LV BIT	MARGINAL
087	RAW	3.4	19.1	70.1	10.8	1.6	13810.	0.0	0.0	0.0	0.0	79.9	14806.	0.	0.0	0.	LV BIT	MARGINAL
095	RAW	3.5	17.8	71.6	10.6	1.9	13807.	4.1	79.2	1.3	2.6	81.5	14714.	2830.	6.0	95.	LV BIT	LATENT
880	RAW	2.6	17.5	70.1	12.4	2.0	13624.	4.3	77.1	1.3	1.8	81.6	14970.	2535.	9.0	98.	LV BIT	LATENT
880	WASH	2.5	18.1	71.3	10.6	1.4	13915.	0.0	0.0	0.0	0.0	81.0	15059.	2637.	8.5	0.	LV BIT	MARGINAL
924	WASH	4.0	17.1	74.6	8.4	0.9	14280.	0.0	0.0	0.0	0.0	82.2	14883.	2900.	9.0	0.	LV BIT	MARGINAL
926	RAW	4.0	20.3	70.8	8.9	2.4	14000.	0.0	0.0	0.0	0.0	79.1	14477.	2460.	8.5	106.	LV BIT	LATENT
927	RAW	3.4	18.7	71.8	9.6	1.3	14070.	0.0	0.0	0.0	0.0	80.4	14920.	2805.	9.0	100.	LV BIT	MARGINAL
928	RAW	2.3	16.1	73.0	10.9	1.7	13870.	4.2	79.8	1.3	2.1	83.3	15063.	2680.	0.0	0.	LV BIT	MARGINAL

AVERAGE COALBED ANALYSES FOR STATE: 42 PENNSYLVANIA (BITUMINOUS)

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
COUNTY:	117	TIOGA																
071	RAW	3.2	19.8	70.2	10.0	1.6	14010.	0.0	0.0	0.0	0.0	79.2	14917.	2730.	9.0	0.	LV BIT	MARGINAL
076	RAW	2.8	20.1	61.4	18.4	3.5	12503.	0.0	0.0	0.0	0.0	77.9	14527.	2250.	9.0	0.	MV BIT	LATENT
076	WASH	3.0	21.1	67.3	11.6	1.7	13767.	0.0	0.0	0.0	0.0	77.5	14948.	2653.	0.0	0.	MV BIT	MARGINAL
080	RAW	3.5	20.6	65.7	13.7	1.8	13250.	0.0	0.0	0.0	0.0	77.7	14655.	2865.	9.0	0.	MV BIT	LATENT
084	WASH	2.8	18.4	66.5	15.1	1.2	13143.	0.0	0.0	0.0	0.0	79.9	14987.	2823.	0.0	0.	LV BIT	LATENT
095	RAW	2.1	21.3	62.8	15.9	3.4	12930.	0.0	0.0	0.0	0.0	76.9	14693.	0.	0.0	0.	MV BIT	LATENT
799	RAW	3.7	17.5	67.9	14.6	1.0	13150.	0.0	0.0	0.0	0.0	81.0	14780.	2910.	9.0	0.	LV BIT	LATENT
COUNTY:	121	VENANGO																
084	RAW	3.0	38.3	46.7	15.0	5.6	12650.	0.0	0.0	0.0	0.0	56.8	13749.	2050.	5.5	0.	HVB BIT	LATENT
095	RAW	4.4	38.9	49.4	11.7	5.5	13085.	0.0	0.0	0.0	0.0	57.6	13490.	2100.	4.5	0.	HVB BIT	LATENT
COUNTY:	125	WASHINGTON																
023	RAW	3.2	34.3	48.3	17.4	3.4	12290.	5.0	68.0	1.5	4.7	60.2	14030.	2220.	6.0	0.	HVA BIT	LATENT
036	RAW	3.8	37.3	52.3	10.4	2.2	13325.	5.3	77.5	1.5	6.4	59.4	14065.	2379.	6.8	56.	HVA BIT	LATENT
036	WASH	4.0	39.2	51.8	9.1	2.6	13515.	4.3	79.7	1.5	5.7	57.9	13962.	2255.	6.7	51.	HVB BIT	LATENT
COUNTY:	129	WESTMORELAND																
033	RAW	1.9	33.7	53.9	12.4	2.3	13282.	5.0	73.7	1.5	6.2	62.7	14665.	2517.	8.3	66.	HVA BIT	LATENT
033	WASH	2.2	34.8	53.7	11.4	2.2	13427.	0.0	0.0	0.0	0.0	61.8	14621.	2530.	8.0	0.	HVA BIT	LATENT
036	RAW	3.2	31.2	58.7	10.1	1.3	13677.	5.0	77.4	1.6	5.3	66.2	14630.	2708.	6.7	64.	HVA BIT	MARGINAL
036	WASH	2.7	30.3	59.9	9.8	1.7	13929.	5.0	78.0	1.7	4.3	67.4	14855.	2634.	0.0	0.	HVA BIT	MARGINAL
062	RAW	3.0	32.1	49.4	18.5	3.6	12270.	0.0	0.0	0.0	0.0	62.6	14208.	2100.	9.0	63.	HVA BIT	LATENT
071	RAW	2.3	34.6	54.7	10.7	2.4	13585.	5.2	76.3	1.4	5.5	62.4	14606.	2309.	8.0	65.	HVA BIT	LATENT
071	WASH	2.6	33.7	58.5	7.8	1.9	14199.	5.1	78.4	1.4	4.8	64.4	14797.	2297.	8.2	69.	HVA BIT	LATENT
074	RAW	2.0	23.5	64.8	11.7	2.6	13710.	0.0	0.0	0.0	0.0	75.0	14950.	2150.	9.0	108.	MV BIT	LATENT
799	RAW	4.4	26.0	59.4	14.6	1.7	13110.	0.0	0.0	0.0	0.0	71.0	14509.	2570.	8.5	84.	MV BIT	LATENT
952	RAW	5.5	30.1	53.6	16.3	3.1	12570.	0.0	0.0	0.0	0.0	65.8	13807.	2500.	8.0	0.	HVB BIT	LATENT
952	WASH	4.2	33.5	60.1	6.3	1.3	14293.	0.0	0.0	0.0	0.0	64.8	14486.	2723.	0.0	0.	HVA BIT	MARGINAL

AVERAGE COALBED ANALYSES FOR STATE: 46 SOUTH DAKOTA

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
	COUNTY:	31	CORSON															
799	RAW	35.9	39.8	48.5	11.7	1.0	10886.	4.3	66.0	1.2	18.4	55.7	7529.	2084.	0.0	40.	LIGNIT	A
	COUNTY:	41	DEWEY															
799	RAW	35.7	41.4	46.8	11.8	0.8	10856.	4.4	65.7	1.3	18.6	53.7	7550.	2139.	0.0	41.	LIGNIT	A
	COUNTY:	105	PERKINS															
799	RAW	30.5	40.7	41.3	18.1	2.2	10410.	4.2	62.7	0.8	14.4	51.6	8201.	2125.	0.0	59.	LIGNIT	A

AVERAGE COALBED ANALYSES FOR STATE: 47 TENNESSEE

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
COUNTY:	1	ANDERSON																
126	RAW	2.9	38.3	56.1	5.6	0.7	14116.	5.4	80.9	1.7	7.6	59.9	14461.	2527.	3.5	44.	HVA BIT	PREMIUM
128	RAW	4.2	36.4	50.6	13.0	1.3	12720.	4.6	69.0	1.5	7.2	59.2	13904.	2702.	3.0	43.	HVB BIT	LATENT
134	RAW	2.0	37.3	51.8	10.9	3.3	13286.	4.8	71.8	1.6	5.6	59.3	14259.	2252.	5.5	48.	HVA BIT	LATENT
135	RAW	2.5	38.3	54.2	7.5	0.9	13841.	5.1	76.4	1.9	6.5	59.2	14522.	2541.	4.6	45.	HVA BIT	PREMIUM
144	RAW	6.4	37.2	53.2	9.7	0.7	13155.	0.0	0.0	0.0	0.0	59.5	13557.	2532.	2.0	41.	HVB BIT	MARGINAL
151	RAW	3.0	36.1	54.8	9.1	2.5	13527.	5.0	75.5	1.8	6.2	61.3	14173.	2392.	0.0	0.	HVA BIT	LATENT
157	RAW	4.0	40.0	57.0	3.0	0.9	14720.	0.0	0.0	0.0	0.0	59.1	14469.	2320.	0.0	0.	HVA BIT	PREMIUM
168	RAW	1.9	37.0	55.6	7.4	1.8	14059.	5.3	78.8	1.9	5.5	60.8	14717.	2322.	0.0	0.	HVA BIT	MARGINAL
212	RAW	2.1	40.3	55.7	4.1	1.7	14605.	5.5	81.1	2.2	5.3	58.6	14711.	2125.	0.0	0.	HVA BIT	MARGINAL
911	RAW	2.2	36.4	50.6	13.0	1.8	13030.	0.0	0.0	0.0	0.0	59.2	14507.	2690.	4.5	46.	HVA BIT	LATENT
COUNTY:	7	BLEDSOE																
265	RAW	2.2	34.2	54.9	10.9	2.6	13505.	0.0	0.0	0.0	0.0	62.8	14561.	2380.	7.0	54.	HVA BIT	LATENT
286	RAW	3.7	29.9	53.7	16.5	1.3	12582.	4.7	76.6	1.5	5.1	65.6	14432.	2535.	5.0	56.	HVA BIT	LATENT
COUNTY:	13	CAMPBELL																
001	RAW	6.0	37.8	52.3	9.9	1.5	13203.	0.0	0.0	0.0	0.0	58.8	13593.	2377.	3.7	46.	HVB BIT	MARGINAL
112	RAW	3.8	36.6	49.6	13.8	2.2	12753.	4.9	71.1	1.5	6.5	58.7	13998.	2507.	3.0	42.	HVB BIT	LATENT
126	RAW	3.6	38.8	55.5	5.7	0.7	14055.	5.4	81.1	1.7	7.8	59.3	14318.	2404.	4.0	42.	HVA BIT	PREMIUM
126	WASH	5.4	40.1	55.4	4.5	0.7	14285.	0.0	0.0	0.0	0.0	58.3	14075.	2525.	0.0	40.	HVA BIT	PREMIUM
129	RAW	3.3	39.2	54.3	6.5	1.1	13907.	5.4	79.1	1.9	7.6	58.6	14285.	2586.	4.5	46.	HVA BIT	MARGINAL
134	RAW	3.1	36.4	50.3	13.3	3.0	12827.	4.9	72.2	1.5	5.9	59.4	14009.	2375.	5.5	45.	HVA BIT	LATENT
135	RAW	2.9	37.3	51.1	11.6	1.9	13070.	4.8	71.9	1.8	8.0	58.8	14180.	2590.	5.0	45.	HVA BIT	LATENT
140	RAW	5.4	37.3	53.3	9.4	1.9	13295.	5.1	75.9	1.9	6.7	59.8	13664.	2370.	1.0	48.	HVB BIT	LATENT
144	RAW	4.7	37.7	56.4	5.9	1.0	13844.	5.2	78.2	1.9	7.2	60.5	13921.	2513.	3.3	47.	HVB BIT	PREMIUM
147	RAW	3.2	39.1	55.3	5.6	4.3	14040.	5.3	77.1	1.8	5.9	59.7	13877.	2340.	0.0	0.	HVB BIT	LATENT
151	RAW	3.6	38.5	56.3	5.2	1.1	14176.	5.3	79.3	1.9	7.4	59.8	14298.	2463.	4.5	50.	HVA BIT	MARGINAL

AVERAGE COALBED ANALYSES FOR STATE: 47 TENNESSEE

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
151	WASH	5.4	38.8	56.0	5.2	1.3	14221.	0.0	0.0	0.0	0.0	59.5	14042.	2611.	5.2	0.	HVA BIT	MARGINAL
157	RAW	4.4	40.3	57.2	2.5	1.1	14447.	5.6	81.0	2.1	7.9	59.0	14030.	2140.	0.0	0.	HVA BIT	MARGINAL
168	RAW	3.0	36.6	55.9	7.5	1.0	13895.	5.3	80.6	1.9	6.7	61.0	14494.	2371.	5.2	47.	HVA BIT	PREMIUM
212	RAW	3.7	40.3	53.9	5.9	2.5	13992.	5.2	78.8	1.9	7.2	57.9	14029.	2176.	5.5	44.	HVA BIT	LATENT
256	RAW	3.0	37.0	55.3	7.6	1.1	13764.	5.5	82.0	2.1	7.4	60.5	14361.	2410.	0.0	0.	HVA BIT	MARGINAL
878	RAW	3.0	39.2	55.9	4.9	1.3	14319.	0.0	0.0	0.0	0.0	59.3	14464.	2476.	5.0	46.	HVA BIT	MARGINAL
878	WASH	5.6	39.1	55.5	5.5	1.4	14220.	0.0	0.0	0.0	0.0	59.2	14057.	2635.	3.5	0.	HVA BIT	MARGINAL
918	RAW	6.0	35.5	52.6	11.9	0.8	12810.	0.0	0.0	0.0	0.0	60.5	13589.	2790.	2.0	46.	HVB BIT	MARGINAL
COUNTY:	25	CLAIBORNE																
001	RAW	3.8	37.1	54.6	8.3	1.3	13592.	0.0	0.0	0.0	0.0	60.2	14136.	2586.	5.5	0.	HVA BIT	MARGINAL
126	RAW	5.4	38.6	55.3	6.1	0.7	14007.	5.2	75.5	1.7	9.3	59.4	14039.	2623.	4.0	51.	HVA BIT	PREMIUM
134	RAW	3.4	36.6	54.1	9.3	1.1	13515.	5.2	77.8	2.1	6.5	60.3	14301.	2738.	4.5	44.	HVA BIT	MARGINAL
135	RAW	3.8	38.5	53.7	7.7	1.5	13676.	5.4	76.4	1.9	6.4	58.9	14110.	2660.	4.2	46.	HVA BIT	MARGINAL
142	RAW	5.6	34.6	56.5	8.9	1.1	13493.	4.7	76.8	2.0	7.4	62.7	13869.	2477.	0.0	0.	HVB BIT	MARGINAL
151	RAW	3.3	37.9	56.2	5.9	1.1	14112.	5.3	80.1	2.0	6.9	60.2	14389.	2402.	4.7	49.	HVA BIT	MARGINAL
151	WASH	5.4	38.6	57.2	4.2	0.8	14311.	0.0	0.0	0.0	0.0	60.1	14037.	2326.	1.0	54.	HVA BIT	PREMIUM
157	RAW	4.9	39.6	54.8	5.5	2.1	13990.	0.0	0.0	0.0	0.0	58.7	13848.	2197.	1.0	54.	HVB BIT	LATENT
157	WASH	3.8	39.3	53.6	7.1	1.2	13920.	5.6	81.8	2.2	7.1	58.3	14287.	2783.	5.9	48.	HVA BIT	MARGINAL
COUNTY:	35	CUMBERLAND																
286	RAW	2.2	28.6	59.0	12.5	1.8	13258.	4.5	75.4	1.4	4.8	68.6	14673.	2490.	0.0	0.	HVA BIT	LATENT
326	RAW	2.8	32.7	60.5	6.8	0.7	14340.	4.9	81.1	1.4	5.1	65.5	14913.	2640.	0.0	0.	HVA BIT	PREMIUM
799	RAW	2.0	31.4	61.3	7.3	1.1	14270.	0.0	0.0	0.0	0.0	66.9	15009.	2400.	0.0	0.	HVA BIT	MARGINAL
COUNTY:	49	FENTRESS																
312	RAW	2.6	37.0	52.7	10.3	2.8	13441.	5.1	74.6	1.4	6.0	59.8	14285.	2236.	0.0	0.	HVA BIT	LATENT
346	RAW	6.4	35.8	58.2	6.1	0.9	13945.	4.9	80.1	1.3	7.7	62.4	13804.	2430.	0.0	0.	HVB BIT	PREMIUM

AVERAGE COALBED ANALYSES FOR STATE: 47 TENNESSEE

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
COUNTY:	61 GRUNDY																	
286	RAW	2.6	29.8	59.9	10.3	0.9	13576.	4.7	78.1	1.5	5.5	67.6	14696.	2588.	6.1	64.	HVA BIT	MARGINAL
286	WASH	6.1	29.7	60.4	9.9	0.7	13669.	0.0	0.0	0.0	0.0	67.8	14165.	2629.	0.0	0.	HVA BIT	MARGINAL
COUNTY:	65 HAMILTON																	
270	RAW	2.9	30.5	57.6	11.9	3.6	13472.	0.0	0.0	0.0	0.0	66.9	14432.	2358.	0.0	0.	HVA BIT	LATENT
286	RAW	2.5	28.5	58.7	12.8	2.7	13381.	4.7	76.1	1.4	3.3	68.8	14678.	2293.	0.0	0.	HVA BIT	LATENT
295	RAW	2.8	29.3	60.4	10.3	1.6	13774.	5.0	79.7	1.5	3.8	68.4	14773.	2518.	0.0	0.	HVA BIT	MARGINAL
326	RAW	2.5	40.0	54.5	5.5	1.3	14820.	0.0	0.0	0.0	0.0	58.2	15158.	2200.	0.0	0.	HVA BIT	MARGINAL
799	RAW	3.5	29.0	60.9	10.1	1.6	13885.	0.0	0.0	0.0	0.0	68.8	14766.	2360.	0.0	0.	HVA BIT	MARGINAL
COUNTY:	115 MARION																	
129	RAW	2.7	24.2	53.5	22.3	3.8	11790.	0.0	0.0	0.0	0.0	71.7	14360.	2170.	0.0	0.	MV BIT	LATENT
286	RAW	2.5	29.3	60.6	10.2	1.2	13643.	4.7	77.0	1.5	5.3	68.4	14730.	2545.	7.0	59.	HVA BIT	MARGINAL
286	WASH	4.6	29.4	62.0	8.6	0.7	13924.	0.0	0.0	0.0	0.0	68.5	14476.	2764.	0.0	0.	HVA BIT	MARGINAL
295	RAW	3.0	28.4	64.9	6.7	1.3	14460.	0.0	0.0	0.0	0.0	70.3	14919.	2540.	7.5	80.	MV BIT	MARGINAL
320	RAW	3.2	25.1	63.7	11.2	2.8	13690.	4.5	77.7	1.2	2.8	73.3	14601.	2255.	0.0	0.	MV BIT	LATENT
326	RAW	3.6	33.3	57.6	9.2	2.2	13797.	0.0	0.0	0.0	0.0	64.4	14417.	2319.	0.0	0.	HVA BIT	LATENT
366	RAW	3.3	25.1	64.2	10.7	1.6	13650.	0.0	0.0	0.0	0.0	73.0	14633.	2790.	0.0	0.	MV BIT	MARGINAL
799	RAW	4.5	25.6	59.3	15.1	1.3	12960.	0.0	0.0	0.0	0.0	71.2	14469.	2600.	0.0	0.	MV BIT	LATENT
COUNTY:	129 MORGAN																	
128	RAW	2.6	37.3	56.8	5.9	0.8	14106.	0.0	0.0	0.0	0.0	60.8	14546.	2832.	5.5	47.	HVA BIT	PREMIUM
134	RAW	1.6	39.2	51.3	9.5	2.9	13588.	0.0	0.0	0.0	0.0	57.7	14455.	2440.	0.0	0.	HVA BIT	LATENT
147	RAW	2.3	38.7	58.0	3.3	1.4	14510.	5.4	81.9	2.0	6.0	60.4	14504.	2300.	0.0	0.	HVA BIT	MARGINAL
151	RAW	2.4	37.7	55.5	6.7	2.7	14135.	5.3	78.0	1.9	5.4	60.4	14488.	2280.	0.0	0.	HVA BIT	LATENT
168	RAW	2.6	37.5	50.5	12.1	4.1	13310.	0.0	0.0	0.0	0.0	58.8	14265.	2310.	8.0	65.	HVA BIT	LATENT
212	RAW	2.4	39.3	54.5	6.2	2.8	14280.	5.3	76.8	1.9	4.8	58.9	14521.	2225.	7.0	61.	HVA BIT	LATENT
234	RAW	2.8	39.4	56.0	4.6	1.6	14452.	5.4	81.3	2.1	7.1	59.2	14546.	2346.	0.0	0.	HVA BIT	MARGINAL
256	RAW	3.6	37.7	56.8	5.5	0.8	14430.	0.0	0.0	0.0	0.0	60.5	14649.	2590.	0.0	0.	HVA BIT	PREMIUM

AVERAGE COALBED ANALYSES FOR STATE: 47 TENNESSEE

BED	TYPE ANAL	MOI REC	PROXIMATE DRY VOL MATT	PROXIMATE DRY FIXD CARB	PROXIMATE DRY ASH	DRY SUL	DRY BTU	ULTIMATE DRY HYD	ULTIMATE DRY CAR	ULTIMATE DRY NIT	ULTIMATE DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
270	RAW	3.2	32.4	59.0	8.6	2.2	14038.	5.0	78.9	1.6	3.8	65.6	14621.	2416.	0.0	0.	HVA BIT	LATENT
	COUNTY:	133	OVERTON															
312	RAW	2.9	36.8	51.9	11.3	3.2	13317.	5.0	74.6	1.4	5.7	59.8	14217.	2273.	0.0	0.	HVA BIT	LATENT
	COUNTY:	141	PUTNAM															
312	RAW	3.0	38.9	48.9	12.3	3.9	13164.	5.0	73.6	1.3	5.4	57.1	14095.	2158.	4.7	53.	HVA BIT	LATENT
312	WASH	1.9	37.6	48.7	13.7	4.4	12940.	0.0	0.0	0.0	0.0	58.0	14192.	2000.	0.0	0.	HVA BIT	LATENT
	COUNTY:	143	RHEA															
286	RAW	2.0	29.8	54.6	15.6	1.2	12710.	0.0	0.0	0.0	0.0	66.0	14735.	2430.	0.0	0.	HVA BIT	LATENT
295	RAW	2.6	30.5	56.9	12.7	1.1	13267.	0.0	0.0	0.0	0.0	66.2	14740.	2447.	0.0	0.	HVA BIT	LATENT
326	RAW	2.8	32.4	55.6	12.0	1.0	13425.	0.0	0.0	0.0	0.0	64.1	14795.	2606.	0.0	0.	HVA BIT	MARGINAL
	COUNTY:	145	ROANE															
286	RAW	2.0	29.2	59.7	11.1	0.7	13505.	4.7	79.4	1.5	4.0	68.1	14894.	2505.	0.0	0.	HVA BIT	MARGINAL
295	RAW	4.1	32.8	57.3	10.0	0.7	13442.	4.7	73.4	1.4	6.8	64.4	14269.	2366.	0.0	0.	HVA BIT	MARGINAL
	COUNTY:	151	SCOTT															
129	RAW	4.7	36.1	52.5	11.5	1.4	13133.	4.9	73.5	1.8	7.2	60.1	14003.	2565.	4.7	47.	HVA BIT	MARGINAL
134	RAW	2.4	36.7	50.6	12.7	3.6	12941.	4.9	73.1	1.6	5.9	59.4	14069.	2307.	6.5	47.	HVA BIT	LATENT
135	RAW	3.5	35.0	53.6	11.4	1.0	13188.	5.1	78.5	1.9	7.1	61.4	14317.	2712.	5.1	47.	HVA BIT	MARGINAL
151	RAW	3.2	38.2	53.8	8.0	2.5	13761.	5.3	79.2	2.0	6.3	59.4	14204.	2373.	0.0	0.	HVA BIT	LATENT
168	RAW	3.4	37.9	55.7	6.4	1.8	14137.	5.2	77.6	1.8	6.2	60.2	14383.	2422.	7.2	54.	HVA BIT	LATENT
212	RAW	2.7	37.0	56.9	6.1	1.1	14254.	5.4	79.7	1.9	5.6	61.1	14673.	2555.	5.6	54.	HVA BIT	MARGINAL
799	RAW	2.0	38.2	44.6	17.2	4.1	12230.	4.7	67.0	1.3	5.7	55.6	14028.	2080.	3.5	45.	HVA BIT	LATENT
	COUNTY:	153	SEQUATCHIE															
129	RAW	2.8	31.8	59.5	8.7	1.3	13990.	0.0	0.0	0.0	0.0	66.0	14782.	2510.	0.0	0.	HVA BIT	MARGINAL
286	RAW	2.9	29.3	58.7	12.0	1.6	13395.	4.6	74.8	1.5	5.2	67.8	14653.	2476.	6.7	57.	HVA BIT	MARGINAL
799	RAW	2.3	28.8	61.9	9.4	1.3	13760.	0.0	0.0	0.0	0.0	69.1	14723.	2535.	0.0	0.	MV BIT	MARGINAL

AVERAGE COALBED ANALYSES FOR STATE: 47 TENNESSEE

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
	COUNTY:	175 VAN BUREN																
286	RAW	3.4	34.5	52.9	12.5	2.2	13196.	0.0	0.0	0.0	0.0	61.7	14338.	2246.	6.7	56.	HVA BIT	LATENT
	COUNTY:	185 WHITE																
295	RAW	3.1	35.7	52.2	12.2	3.6	13280.	4.9	73.2	1.5	4.7	60.8	14239.	2155.	0.0	0.	HVA BIT	LATENT
326	RAW	3.0	40.9	48.4	10.7	4.3	13460.	5.1	73.2	1.5	5.2	55.5	14105.	2140.	0.0	0.	HVA BIT	LATENT
327	RAW	3.2	39.6	52.5	7.9	2.9	13850.	5.3	76.9	1.2	5.8	57.9	14221.	2350.	0.0	0.	HVA BIT	LATENT

AVERAGE COALBED ANALYSES FOR STATE: 48 TEXAS

BED	TYPE ANAL	MOI REC	PROXIMATE DRY VOL MATT	PROXIMATE DRY FIXD CARB	PROXIMATE DRY ASH	DRY SUL	DRY BTU	ULTIMATE DRY HYD	ULTIMATE DRY CAR	ULTIMATE DRY NIT	ULTIMATE DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
	COUNTY:	21	BASTROP															
799	RAW	24.1	43.5	42.5	14.0	1.5	10930.	0.0	0.0	0.0	0.0	50.3	9242.	0.	0.0	0.	SUBBIT C	
	COUNTY:	143	ERATH															
799	RAW	2.2	31.8	40.2	28.0	3.1	10390.	0.0	0.0	0.0	0.0	58.4	13885.	0.	0.0	0.	HVB BIT	LATENT
	COUNTY:	331	MILAM															
799	RAW	26.3	43.9	42.4	13.7	1.5	10947.	4.6	62.3	1.3	15.7	49.9	8942.	2295.	0.0	0.	SUBBIT C	
	COUNTY:	363	PALO PINTO															
799	RAW	4.1	37.0	47.5	15.5	3.0	12480.	0.0	0.0	0.0	0.0	57.7	13835.	2280.	0.0	0.	HVB BIT	LATENT
	COUNTY:	479	WEBB															
799	RAW	3.9	48.4	40.9	10.7	2.4	13103.	0.0	0.0	0.0	0.0	46.6	13833.	2790.	0.0	0.	HVB BIT	LATENT

AVERAGE COALBED ANALYSES FOR STATE: 49 UTAH

BED	TYPE ANAL	MOI REC	PROXIMATE DRY VOL MATT	PROXIMATE DRY FIXD CARB	PROXIMATE DRY ASH	DRY SUL	DRY BTU	ULTIMATE DRY HYD	ULTIMATE DRY CAR	ULTIMATE DRY NIT	ULTIMATE DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
COUNTY:	7	CARBON																
001	RAW	3.6	44.1	48.1	7.9	0.7	13411.	0.0	0.0	0.0	0.0	52.6	13993.	2297.	0.0	0.	HVB BIT	PREMIUM
002	RAW	3.8	43.7	49.4	6.9	0.4	13385.	0.0	0.0	0.0	0.0	53.5	13802.	2217.	2.2	0.	HVB BIT	PREMIUM
002	WASH	5.2	44.3	49.4	6.3	0.5	13490.	0.0	0.0	0.0	0.0	53.1	13607.	2240.	1.5	0.	HVB BIT	PREMIUM
799	RAW	5.6	43.2	50.0	6.8	0.6	13368.	5.4	75.6	1.5	11.2	54.1	13479.	2365.	1.1	49.	HVB BIT	PREMIUM
802	RAW	4.5	39.9	53.3	6.8	1.0	13666.	5.4	77.0	1.6	8.7	57.7	13906.	2646.	4.5	0.	HVB BIT	PREMIUM
802	WASH	8.7	40.3	53.0	6.7	1.1	13717.	5.4	77.1	1.5	8.9	57.4	13276.	2717.	0.0	0.	HVB BIT	MARGINAL
820	RAW	4.9	40.5	51.4	8.1	0.7	13141.	5.1	74.6	1.5	10.4	56.5	13545.	2453.	2.1	45.	HVB BIT	MARGINAL
825	RAW	4.5	40.7	51.8	7.6	0.5	13226.	4.9	71.1	1.4	11.8	56.5	13646.	2330.	1.5	44.	HVB BIT	PREMIUM
825	WASH	4.5	40.8	53.7	5.5	0.5	13729.	0.0	0.0	0.0	0.0	57.2	13837.	2191.	1.5	41.	HVB BIT	PREMIUM
830	RAW	5.3	43.3	49.7	6.9	0.5	13302.	5.6	75.5	1.5	11.0	53.8	13493.	2297.	1.4	47.	HVB BIT	PREMIUM
830	WASH	7.9	45.0	49.1	6.0	0.5	13400.	5.5	74.7	1.5	11.6	52.5	13055.	2544.	1.3	45.	HVB BIT	PREMIUM
832	RAW	4.6	44.8	48.5	6.7	0.4	13406.	5.4	74.3	1.4	11.8	52.4	13689.	2268.	2.0	49.	HVB BIT	PREMIUM
832	WASH	7.0	44.8	49.4	5.9	0.5	13473.	5.5	75.6	1.4	10.6	52.8	13254.	2377.	0.0	51.	HVB BIT	PREMIUM
834	RAW	10.8	43.4	49.1	7.5	0.5	12533.	5.2	74.5	1.3	9.7	53.5	11998.	2250.	2.5	48.	HVC BIT	PREMIUM
836	RAW	3.6	43.9	48.8	7.3	0.4	13402.	5.6	74.6	1.4	10.8	53.0	13928.	2198.	1.7	45.	HVB BIT	PREMIUM
836	WASH	4.6	43.6	50.1	6.4	0.3	13444.	0.0	0.0	0.0	0.0	53.8	13691.	2199.	1.0	44.	HVB BIT	PREMIUM
840	RAW	4.1	46.3	46.8	6.9	0.9	13521.	5.9	74.4	1.5	9.9	50.7	13856.	2147.	2.2	47.	HVB BIT	PREMIUM
842	RAW	5.4	44.3	49.3	6.4	0.6	13405.	5.6	74.9	1.6	10.7	53.1	13495.	2426.	2.5	46.	HVB BIT	PREMIUM
843	RAW	3.5	45.0	47.3	7.6	0.7	13407.	5.6	75.8	1.3	10.4	51.7	13961.	2210.	1.7	0.	HVB BIT	PREMIUM
844	RAW	4.3	46.6	46.3	7.1	1.3	13490.	5.7	74.8	1.5	10.3	50.3	13778.	2020.	0.0	0.	HVB BIT	MARGINAL
846	RAW	6.3	44.1	48.9	7.0	0.8	13285.	5.5	74.5	1.5	11.3	53.0	13291.	2508.	1.3	44.	HVB BIT	PREMIUM
846	WASH	5.7	45.0	48.6	6.4	0.6	13583.	0.0	0.0	0.0	0.0	52.3	13631.	2228.	2.4	47.	HVB BIT	PREMIUM
887	RAW	5.7	46.8	47.2	6.0	0.9	13574.	0.0	0.0	0.0	0.0	50.6	13507.	2062.	2.0	48.	HVB BIT	PREMIUM
905	RAW	4.5	46.0	46.1	7.9	0.5	13302.	0.0	0.0	0.0	0.0	50.4	13762.	2222.	1.7	0.	HVB BIT	PREMIUM
905	WASH	5.9	44.2	49.3	6.5	0.5	13475.	0.0	0.0	0.0	0.0	53.1	13522.	2183.	0.0	0.	HVB BIT	PREMIUM
907	RAW	4.1	43.2	50.1	6.7	0.5	13390.	0.0	0.0	0.0	0.0	54.1	13735.	2170.	0.0	45.	HVB BIT	PREMIUM
907	WASH	5.4	43.3	51.0	5.8	0.5	13527.	0.0	0.0	0.0	0.0	54.4	13544.	2178.	1.5	0.	HVB BIT	PREMIUM

AVERAGE COALBED ANALYSES FOR STATE: 49 UTAH

BED	TYPE ANAL	MOI REC	PROXIMATE DRY VOL MATT	PROXIMATE DRY FIXD CARB	PROXIMATE DRY ASH	DRY SUL	DRY BTU	ULTIMATE DRY HYD	ULTIMATE DRY CAR	ULTIMATE DRY NIT	ULTIMATE DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
	COUNTY:	15	EMERY															
799	RAW	4.8	44.0	48.5	7.5	0.6	13443.	5.7	75.2	1.6	10.8	52.8	13781.	2410.	1.0	47.	HVB BIT	PREMIUM
800	RAW	6.1	40.9	52.3	6.7	0.8	13501.	0.0	0.0	0.0	0.0	56.6	13502.	2371.	0.0	0.	HVB BIT	PREMIUM
802	RAW	5.8	40.5	52.4	7.1	0.7	13391.	5.1	72.7	1.5	10.1	56.8	13505.	2444.	2.9	49.	HVB BIT	PREMIUM
830	RAW	7.2	46.5	47.7	5.8	0.6	13396.	5.7	76.1	1.6	12.2	51.0	13139.	2180.	2.2	51.	HVB BIT	PREMIUM
846	RAW	5.2	44.4	47.7	7.9	0.6	13384.	5.6	75.1	1.5	10.4	52.2	13728.	2298.	2.0	47.	HVB BIT	PREMIUM
852	RAW	7.6	41.1	49.7	9.1	0.8	12820.	0.0	0.0	0.0	0.0	55.3	12924.	2303.	1.0	45.	HVC BIT	MARGINAL
853	RAW	4.4	41.4	50.9	7.7	0.9	13325.	5.2	74.9	1.4	11.3	55.7	13723.	2139.	1.3	41.	HVB BIT	PREMIUM
855	RAW	5.1	45.0	47.8	7.2	0.5	13627.	5.8	76.3	1.5	10.1	51.9	13888.	2178.	2.7	48.	HVB BIT	PREMIUM
856	RAW	5.6	47.0	47.1	5.9	0.5	13700.	5.8	75.5	1.5	10.8	50.4	13713.	2155.	1.3	50.	HVB BIT	PREMIUM
886	RAW	5.6	44.1	49.6	6.4	0.7	13580.	0.0	0.0	0.0	0.0	53.3	13625.	2190.	2.0	0.	HVB BIT	PREMIUM
	COUNTY:	17	GARFIELD															
799	RAW	18.6	44.0	46.2	9.8	0.9	11954.	4.9	66.7	1.2	16.3	51.8	10568.	2194.	0.0	51.	HVC BIT	MARGINAL
	COUNTY:	19	GRAND															
799	RAW	6.6	38.8	49.4	11.8	0.7	12564.	5.0	71.1	1.6	10.3	56.7	13234.	2696.	1.5	46.	HVB BIT	MARGINAL
	COUNTY:	21	IRON															
799	RAW	8.2	43.0	42.7	14.2	6.3	11540.	4.7	65.5	1.2	10.6	51.5	11565.	2186.	1.2	55.	HVC BIT	LATENT
	COUNTY:	25	KANE															
799	RAW	18.0	39.9	49.8	10.3	2.0	11931.	4.8	69.2	1.4	13.3	56.4	10572.	2260.	0.0	58.	HVC BIT	LATENT
	COUNTY:	41	SEVIER															
799	RAW	4.8	40.6	48.9	10.6	1.9	12647.	0.0	0.0	0.0	0.0	55.5	13267.	0.	0.0	0.	HVB BIT	LATENT
848	RAW	6.3	45.1	45.3	9.6	0.5	12683.	5.3	71.6	1.3	12.2	50.6	13106.	2225.	1.0	48.	HVB BIT	MARGINAL
849	RAW	8.8	41.4	51.0	7.6	0.5	12848.	0.0	0.0	0.0	0.0	55.6	12612.	2246.	1.0	50.	HVC BIT	PREMIUM
851	RAW	8.0	42.3	47.8	9.9	0.4	12590.	5.2	73.2	1.2	12.0	53.6	12793.	2360.	0.0	0.	HVC BIT	MARGINAL

AVERAGE COALBED ANALYSES FOR STATE: 49 UTAH

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
	COUNTY:	43	SUMMIT															
799	RAW	14.3	43.3	51.6	5.1	1.4	12725.	0.0	0.0	0.0	0.0	54.8	11295.	2250.	0.0	46.	HVC BIT	MARGINAL
850	RAW	14.7	43.3	50.6	6.1	1.3	12547.	5.1	71.7	1.4	14.6	54.4	11197.	2253.	0.0	0.	HVC BIT	MARGINAL
	COUNTY:	47	UINTAH															
799	RAW	8.9	39.7	46.1	14.3	1.9	11938.	5.0	69.5	1.3	11.5	54.8	12426.	2580.	0.0	47.	HVC BIT	LATENT

AVERAGE COALBED ANALYSES FOR STATE: 51 VIRGINIA

BED	TYPE ANAL.	MOI REC	PROXIMATE DRY VOL MATT	PROXIMATE DRY FIXD CARB	PROXIMATE DRY ASH	DRY SUL	DRY BTU	ULTIMATE DRY HYD	ULTIMATE DRY CAR	ULTIMATE DRY NIT	ULTIMATE DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER MGI	RANK	GRADE
COUNTY:	27	BUCHANAN																
001	RAW	3.0	29.8	61.5	8.6	1.1	14127.	4.9	80.8	1.6	4.2	68.2	14905.	2679.	7.4	67.	HVA BIT	MARGINAL
001	WASH	3.7	27.1	67.6	5.3	0.9	14783.	0.0	0.0	0.0	0.0	71.9	14927.	2460.	8.4	82.	MV BIT	PREMIUM
151	RAW	3.2	34.7	60.6	4.7	0.4	14643.	5.1	83.2	1.4	5.9	64.0	14860.	2903.	7.5	59.	HVA BIT	PREMIUM
174	RAW	2.5	31.0	61.6	7.4	0.9	14250.	5.0	80.1	1.7	4.9	67.2	14947.	2611.	6.7	68.	HVA BIT	PREMIUM
174	WASH	4.0	31.5	61.6	6.9	1.0	14411.	0.0	0.0	0.0	0.0	66.8	14771.	2849.	7.1	67.	HVA BIT	PREMIUM
176	RAW	2.4	31.5	60.3	8.2	1.1	14165.	5.0	80.2	1.5	4.6	66.4	14990.	2590.	7.6	63.	HVA BIT	MARGINAL
176	WASH	3.7	33.3	62.9	3.8	0.7	14840.	0.0	0.0	0.0	0.0	65.7	14787.	2910.	0.0	0.	HVA BIT	PREMIUM
177	RAW	3.4	30.4	59.6	9.6	0.9	13860.	0.0	0.0	0.0	0.0	66.7	14752.	2620.	8.5	64.	HVA BIT	MARGINAL
195	RAW	2.2	30.9	62.3	6.8	0.9	14460.	0.0	0.0	0.0	0.0	67.5	15115.	2900.	5.5	63.	HVA BIT	PREMIUM
210	RAW	2.6	29.2	63.5	7.2	0.9	14421.	5.1	83.1	1.6	3.9	69.1	15083.	2721.	7.6	73.	MV BIT	PREMIUM
210	WASH	3.0	29.9	64.4	5.7	0.6	14687.	4.9	81.9	1.6	4.5	68.8	15064.	2811.	7.0	71.	HVA BIT	PREMIUM
216	RAW	2.3	23.4	67.3	8.8	1.1	14274.	4.6	82.1	1.4	3.0	75.2	15131.	2702.	7.7	96.	MV BIT	MARGINAL
216	WASH	2.8	22.6	68.7	8.6	0.9	14309.	0.0	0.0	0.0	0.0	76.1	15169.	2807.	7.9	0.	MV BIT	MARGINAL
252	RAW	2.6	26.1	67.9	6.1	1.3	14668.	0.0	0.0	0.0	0.0	72.9	15088.	2337.	9.0	91.	MV BIT	MARGINAL
252	WASH	2.5	24.5	71.9	3.7	0.6	15110.	4.8	85.7	1.6	4.3	75.0	15240.	2550.	0.0	0.	MV BIT	PREMIUM
259	RAW	2.6	23.2	72.6	4.2	0.7	15108.	4.8	87.0	1.4	2.9	76.3	15295.	2317.	8.8	95.	MV BIT	PREMIUM
259	WASH	3.4	22.3	74.3	3.3	0.7	15251.	0.0	0.0	0.0	0.0	77.3	15171.	2273.	9.0	98.	MV BIT	PREMIUM
266	RAW	2.2	22.4	66.7	10.9	0.6	13830.	4.5	79.5	1.4	3.1	75.8	15197.	2910.	8.5	93.	MV BIT	MARGINAL
890	RAW	3.3	31.5	61.5	7.0	1.2	14330.	0.0	0.0	0.0	0.0	66.8	14786.	2530.	8.0	67.	HVA BIT	MARGINAL
931	RAW	4.8	26.4	63.3	10.3	1.1	13890.	4.7	78.7	1.6	3.6	71.5	14637.	2610.	9.0	88.	MV BIT	MARGINAL
969	WASH	3.5	28.4	66.4	5.2	0.7	14670.	0.0	0.0	0.0	0.0	70.5	14825.	2760.	8.0	0.	MV BIT	PREMIUM
971	RAW	2.0	23.0	73.8	3.2	0.7	15240.	0.0	0.0	0.0	0.0	76.6	15368.	2407.	0.0	0.	MV BIT	PREMIUM
971	WASH	4.5	23.5	72.1	4.4	0.8	15040.	0.0	0.0	0.0	0.0	76.0	14952.	2407.	8.5	92.	MV BIT	PREMIUM
988	RAW	3.0	30.4	63.5	6.1	0.9	14600.	0.0	0.0	0.0	0.0	68.2	15004.	2575.	8.0	79.	HVA BIT	PREMIUM
988	WASH	3.6	31.0	62.4	6.6	0.8	14482.	0.0	0.0	0.0	0.0	67.4	14882.	2860.	7.0	70.	HVA BIT	PREMIUM
COUNTY:	51	DICKENSON																
001	RAW	2.0	31.0	59.3	8.8	0.7	14123.	0.0	0.0	0.0	0.0	65.7	15150.	2579.	7.5	64.	HVA BIT	MARGINAL
001	WASH	2.4	31.5	61.8	6.7	0.8	14484.	0.0	0.0	0.0	0.0	66.8	15114.	2680.	8.0	0.	HVA BIT	PREMIUM
174	RAW	3.0	33.1	60.8	6.1	0.9	14450.	0.0	0.0	0.0	0.0	65.3	14846.	2700.	7.2	61.	HVA BIT	PREMIUM

AVERAGE COALBED ANALYSES FOR STATE: 51 VIRGINIA

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MFMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
174	WASH	2.5	33.1	62.2	4.7	0.8	14716.	5.2	84.5	1.9	4.8	65.7	14989.	2747.	7.2	60.	HVA BIT	PREMIUM
177	RAW	2.0	32.8	61.5	5.7	0.7	14500.	0.0	0.0	0.0	0.0	65.7	15025.	2470.	7.0	62.	HVA BIT	PREMIUM
195	RAW	2.2	29.4	61.9	8.7	2.0	14210.	4.9	81.2	1.5	3.4	68.8	15019.	2440.	5.7	76.	HVA BIT	LATENT
210	RAW	1.9	30.3	60.6	9.1	0.8	14077.	4.8	76.5	1.3	4.7	67.4	15162.	2759.	7.2	66.	HVA BIT	MARGINAL
210	WASH	2.3	29.6	62.7	7.7	0.7	14335.	0.0	0.0	0.0	0.0	68.6	15140.	2779.	7.5	0.	HVA BIT	PREMIUM
214	RAW	1.8	31.6	61.0	7.4	0.7	14382.	5.1	81.5	1.5	4.5	66.5	15230.	2599.	7.0	61.	HVA BIT	PREMIUM
214	WASH	2.3	32.3	62.1	5.6	0.6	14681.	0.0	0.0	0.0	0.0	66.2	15159.	2791.	6.5	0.	HVA BIT	PREMIUM
216	RAW	2.6	31.5	60.1	8.4	0.9	14228.	5.0	79.4	1.5	4.1	66.3	15068.	2461.	7.2	65.	HVA BIT	MARGINAL
868	RAW	1.8	31.7	62.9	5.4	0.7	14690.	0.0	0.0	0.0	0.0	67.0	15204.	2780.	6.5	68.	HVA BIT	PREMIUM
869	RAW	2.6	31.4	56.3	12.3	0.8	13610.	0.0	0.0	0.0	0.0	65.1	15107.	2610.	6.0	0.	HVA BIT	LATENT
869	WASH	2.8	30.5	62.9	6.5	0.7	14592.	0.0	0.0	0.0	0.0	67.9	15125.	2728.	7.5	0.	HVA BIT	PREMIUM
921	RAW	2.5	32.0	59.6	8.4	0.8	14241.	0.0	0.0	0.0	0.0	65.7	15121.	2380.	7.1	65.	HVA BIT	MARGINAL
987	RAW	2.5	34.4	54.7	10.9	1.9	13590.	0.0	0.0	0.0	0.0	62.4	14694.	2460.	7.5	55.	HVA BIT	LATENT
COUNTY:	105 LEE																	
001	RAW	4.7	37.5	52.4	10.1	1.1	13269.	0.0	0.0	0.0	0.0	59.0	13960.	2462.	3.7	45.	HVB BIT	MARGINAL
126	RAW	3.5	38.1	52.5	9.4	0.9	13410.	5.2	77.2	1.7	7.8	58.6	14227.	2630.	0.0	0.	HVA BIT	MARGINAL
135	RAW	2.9	37.0	54.3	8.8	0.8	13551.	5.1	77.1	1.7	7.7	60.1	14378.	2890.	5.0	45.	HVA BIT	MARGINAL
142	RAW	3.2	38.8	52.3	6.9	1.8	13524.	5.1	76.5	1.5	7.0	58.2	14199.	2457.	4.2	45.	HVA BIT	MARGINAL
151	RAW	3.4	38.2	57.7	4.1	0.6	14422.	5.5	82.4	1.5	7.8	60.5	14482.	2325.	5.2	45.	HVA BIT	PREMIUM
157	RAW	3.1	39.3	50.9	9.9	2.2	13480.	4.8	71.0	1.4	6.3	57.4	14273.	2215.	4.7	50.	HVA BIT	LATENT
168	RAW	3.3	39.3	52.2	8.5	1.6	13713.	5.2	76.7	1.7	6.7	57.7	14328.	2407.	5.0	47.	HVA BIT	MARGINAL
185	RAW	3.5	34.7	52.6	12.7	2.4	12920.	0.0	0.0	0.0	0.0	61.5	14030.	2470.	5.5	55.	HVA BIT	LATENT
866	RAW	2.7	36.5	54.5	9.0	0.8	13528.	5.1	75.9	1.7	7.6	60.5	14425.	2637.	0.0	0.	HVA BIT	MARGINAL
878	RAW	5.1	37.9	57.3	4.8	0.5	14127.	0.0	0.0	0.0	0.0	60.6	14032.	2400.	3.0	0.	HVA BIT	PREMIUM
908	RAW	5.0	39.3	50.6	10.1	3.3	13340.	0.0	0.0	0.0	0.0	57.4	13700.	2140.	5.0	45.	HVB BIT	LATENT
945	RAW	4.1	39.8	54.7	5.5	0.9	14018.	5.3	80.4	1.6	8.2	58.3	14137.	2340.	0.0	0.	HVA BIT	PREMIUM

AVERAGE COALBED ANALYSES FOR STATE: 51 VIRGINIA

BED	TYPE ANAL	MOI REC	PROXIMATE DRY VOL MATT	PROXIMATE DRY FIXD CARB	PROXIMATE DRY ASH	DRY SUL	DRY BTU	ULTIMATE DRY HYD	ULTIMATE DRY CAR	ULTIMATE DRY NIT	ULTIMATE DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
COUNTY:	121	MONTGOMERY																
377	RAW	2.4	11.8	66.9	21.3	0.7	12021.	0.0	0.0	0.0	0.0	87.1	15007.	2694.	1.0	69.	SEMIANTH	
377	WASH	2.0	12.1	66.2	21.6	0.6	11875.	0.0	0.0	0.0	0.0	86.7	15007.	2506.	0.0	0.	SEMIANTH	
COUNTY:	155																	
377	RAW	1.4	12.0	65.8	22.2	0.6	11693.	0.0	0.0	0.0	0.0	86.8	15003.	2520.	0.0	0.	SEMIANTH	
379	RAW	2.1	10.3	67.1	22.7	0.6	11851.	0.0	0.0	0.0	0.0	89.1	15158.	2609.	0.0	0.	SEMIANTH	
379	WASH	2.0	11.5	65.8	22.7	0.5	11770.	0.0	0.0	0.0	0.0	87.4	15096.	2350.	0.0	0.	SEMIANTH	
COUNTY:	167	RUSSELL																
001	RAW	1.7	32.4	58.9	8.7	0.8	14140.	0.0	0.0	0.0	0.0	65.2	15206.	2320.	8.0	0.	HVA BIT	MARGINAL
001	WASH	1.9	35.4	58.5	6.0	0.6	14550.	0.0	0.0	0.0	0.0	62.7	15101.	2347.	0.0	0.	HVA BIT	PREMIUM
214	RAW	2.0	36.1	57.1	6.8	0.6	14353.	5.2	81.6	1.6	5.2	61.7	15078.	2286.	0.0	0.	HVA BIT	PREMIUM
214	WASH	3.5	34.7	57.6	7.8	0.6	14223.	0.0	0.0	0.0	0.0	63.0	14855.	2313.	0.0	0.	HVA BIT	PREMIUM
216	RAW	2.2	35.6	56.7	7.6	0.7	14209.	5.2	79.5	1.6	5.4	62.0	15016.	2330.	6.5	51.	HVA BIT	PREMIUM
252	RAW	2.2	33.3	58.9	7.8	1.0	14200.	0.0	0.0	0.0	0.0	64.5	14999.	2200.	7.5	61.	HVA BIT	PREMIUM
259	RAW	2.4	32.8	60.1	7.1	0.8	14428.	5.2	82.8	1.5	4.6	65.2	15119.	2298.	7.7	55.	HVA BIT	PREMIUM
266	RAW	1.0	29.1	51.4	19.5	0.5	12110.	0.0	0.0	0.0	0.0	65.2	15064.	2340.	6.5	0.	HVA BIT	LATENT
266	WASH	2.2	30.3	61.5	8.2	0.6	14200.	0.0	0.0	0.0	0.0	67.6	15135.	2395.	7.5	73.	HVA BIT	MARGINAL
268	WASH	2.5	29.2	63.7	7.1	0.5	14426.	4.9	84.7	1.5	4.0	69.1	15139.	2425.	7.2	72.	MV BIT	PREMIUM
269	RAW	1.7	30.7	62.0	7.3	0.5	14290.	0.0	0.0	0.0	0.0	67.4	15156.	2300.	8.5	0.	HVA BIT	PREMIUM
269	WASH	2.4	30.5	61.3	8.2	0.5	14175.	5.2	83.0	1.4	4.5	67.4	15075.	2364.	6.8	0.	HVA BIT	MARGINAL
921	RAW	1.9	37.1	54.8	8.1	0.5	14073.	0.0	0.0	0.0	0.0	60.2	15026.	2293.	7.0	51.	HVA BIT	MARGINAL
921	WASH	3.5	35.2	58.2	6.6	0.7	14444.	0.0	0.0	0.0	0.0	62.8	14876.	2337.	7.7	0.	HVA BIT	PREMIUM
COUNTY:	185	TAZEWELL																
001	RAW	3.8	29.4	59.8	10.8	0.6	13815.	0.0	0.0	0.0	0.0	67.9	14901.	2433.	8.0	0.	HVA BIT	MARGINAL
216	RAW	3.4	28.5	62.8	8.7	0.6	14240.	4.8	81.2	1.5	3.3	69.5	15051.	2720.	7.0	96.	MV BIT	MARGINAL
259	RAW	2.6	28.4	66.3	5.3	0.7	14838.	5.1	85.4	1.5	3.8	70.5	15215.	2301.	8.1	86.	MV BIT	PREMIUM
259	WASH	3.6	31.1	63.3	5.6	0.6	14733.	0.0	0.0	0.0	0.0	67.5	14984.	2246.	8.0	0.	HVA BIT	PREMIUM
266	RAW	2.7	26.2	58.2	15.6	0.6	13065.	4.5	75.6	1.3	3.6	70.2	15129.	2845.	4.7	69.	MV BIT	LATENT
271	RAW	2.5	29.8	65.5	4.7	0.5	14946.	5.2	85.8	1.4	3.7	69.1	15259.	2338.	8.5	0.	HV BIT	PREMIUM

AVERAGE COALBED ANALYSES FOR STATE: 51 VIRGINIA

BED	TYPE ANAL	PROXIMATE MOI REC	PROXIMATE DRY VOL MATT	PROXIMATE DRY FIXD CARB	PROXIMATE DRY ASH	DRY SUL	DRY BTU	ULTIMATE DRY HYD	ULTIMATE DRY CAR	ULTIMATE DRY NIT	ULTIMATE DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER MGI	RANK	GRADE
271	WASH	2.6	29.9	65.4	4.7	0.5	14937.	0.0	0.0	0.0	0.0	69.1	15238.	2235.	0.0	0.	MV BIT	PREMIUM
285	RAW	2.4	27.4	66.2	6.4	1.2	14440.	4.9	82.5	1.6	3.4	71.4	14947.	2240.	8.5	73.	MV BIT	MARGINAL
302	RAW	3.2	23.8	66.6	9.6	0.7	14185.	0.0	0.0	0.0	0.0	74.5	15170.	2770.	8.5	0.	MV BIT	MARGINAL
341	RAW	2.5	22.3	73.2	4.4	0.5	15036.	4.7	87.7	1.4	2.7	77.1	15305.	2268.	0.0	0.	MV BIT	PREMIUM
341	WASH	3.8	22.8	73.6	3.7	0.6	15220.	0.0	0.0	0.0	0.0	76.7	15145.	2190.	0.0	0.	MV BIT	PREMIUM
344	RAW	3.2	21.4	73.7	4.9	0.6	14976.	4.6	87.4	1.2	3.2	78.0	15200.	2512.	8.6	102.	MV BIT	PREMIUM
344	WASH	3.6	21.3	73.5	5.2	0.5	14873.	0.0	0.0	0.0	0.0	78.0	15085.	2523.	8.0	0.	LV BIT	PREMIUM
889	WASH	2.3	28.2	63.8	8.0	1.4	14250.	0.0	0.0	0.0	0.0	70.2	15008.	2180.	9.0	78.	MV BIT	MARGINAL
	COUNTY:	195	WISE															
001	RAW	3.9	33.6	56.6	9.9	0.9	13670.	0.0	0.0	0.0	0.0	63.5	14509.	2615.	6.5	60.	HVA BIT	MARGINAL
104	RAW	2.7	35.9	57.5	6.6	0.7	14069.	5.2	82.9	1.7	6.9	62.1	14631.	2867.	5.1	48.	HVA BIT	PREMIUM
111	RAW	3.1	35.8	56.7	7.5	0.7	13866.	0.0	0.0	0.0	0.0	61.8	14495.	2908.	4.4	43.	HVA BIT	PREMIUM
126	RAW	3.0	35.6	54.5	9.8	0.9	13597.	0.0	0.0	0.0	0.0	61.2	14570.	2854.	6.1	43.	HVA BIT	MARGINAL
151	RAW	2.1	35.2	60.3	4.4	0.7	14727.	5.4	83.4	1.5	5.9	63.5	15029.	2531.	8.1	61.	HVA BIT	PREMIUM
151	WASH	4.4	36.0	61.5	2.6	0.7	15026.	5.4	84.3	1.5	5.8	63.4	14669.	2625.	8.3	52.	HVA BIT	PREMIUM
152	RAW	3.0	36.6	59.5	4.0	0.6	14785.	5.4	83.3	1.5	5.4	62.2	14885.	2594.	0.0	0.	HVA BIT	PREMIUM
165	RAW	2.8	34.3	61.0	4.7	0.7	14570.	0.0	0.0	0.0	0.0	64.4	14803.	2910.	7.0	50.	HVA BIT	PREMIUM
168	RAW	2.8	33.6	56.5	9.9	0.8	13698.	5.0	77.6	1.5	6.4	63.4	14753.	2772.	7.5	57.	HVA BIT	MARGINAL
174	RAW	4.7	32.9	58.0	9.1	1.4	13870.	5.0	82.3	1.7	5.0	64.6	14401.	2482.	7.5	63.	HVA BIT	MARGINAL
174	WASH	2.7	35.6	60.2	4.3	1.3	14761.	5.3	83.9	1.6	4.9	63.3	14856.	2423.	0.0	0.	HVA BIT	MARGINAL
177	RAW	2.8	32.9	61.3	5.8	0.8	14551.	0.0	0.0	0.0	0.0	65.6	14951.	2756.	8.0	57.	HVA BIT	PREMIUM
178	RAW	3.6	33.5	61.1	5.4	1.7	14540.	5.1	81.7	1.6	5.0	65.3	14648.	2270.	8.8	63.	HVA BIT	MARGINAL
185	RAW	2.7	32.8	57.0	10.2	1.6	13779.	4.9	76.4	1.6	4.9	64.4	14790.	2350.	8.1	62.	HVA BIT	MARGINAL
189	RAW	2.6	32.6	58.8	8.7	1.1	14013.	5.1	79.1	1.7	5.1	65.1	14864.	2667.	0.0	0.	HVA BIT	MARGINAL
189	WASH	6.4	34.2	60.5	5.4	1.0	14633.	5.4	82.0	1.7	5.3	64.4	14356.	2750.	8.0	0.	HVA BIT	PREMIUM
214	RAW	1.8	33.4	59.7	6.9	0.6	14403.	5.2	82.6	1.6	4.8	64.6	15179.	2682.	7.5	66.	HVA BIT	PREMIUM
216	RAW	3.2	36.7	55.4	7.9	0.6	14160.	0.0	0.0	0.0	0.0	60.7	14857.	2500.	7.0	46.	HVA BIT	PREMIUM
259	RAW	2.8	29.2	52.2	18.6	0.8	12410.	4.4	69.8	1.3	5.1	65.5	14862.	2730.	6.5	56.	HVA BIT	LATENT

AVERAGE COALBED ANALYSES FOR STATE: 51 VIRGINIA

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
266	RAW	1.6	33.1	50.5	16.4	0.7	12487.	4.5	70.9	1.4	6.1	61.5	14729.	2424.	5.3	46.	HVA BIT	LATENT
867	RAW	1.6	36.3	59.2	4.5	0.7	14639.	5.5	83.6	1.6	5.9	62.3	14995.	2360.	0.0	0.	HVA BIT	PREMIUM
890	RAW	6.1	31.2	64.2	4.6	0.7	14510.	4.9	81.7	1.7	6.4	67.7	14203.	2730.	7.5	68.	HVA BIT	PREMIUM
929	RAW	2.5	32.9	61.4	5.7	0.9	14510.	0.0	0.0	0.0	0.0	65.6	14927.	2570.	8.0	57.	HVA BIT	PREMIUM
930	RAW	3.6	34.3	54.2	11.5	0.9	13260.	0.0	0.0	0.0	0.0	62.1	14360.	2670.	6.5	53.	HVA BIT	MARGINAL
972	RAW	3.5	34.8	56.9	8.3	0.7	13950.	4.9	78.3	1.5	6.3	62.7	14640.	2860.	7.0	46.	HVA BIT	MARGINAL

AVERAGE COALBED ANALYSES FOR STATE: 53 WASHINGTON

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
COUNTY:	33 KING																	
001	RAW	12.4	39.1	44.0	16.9	0.7	11287.	5.2	68.0	1.6	8.8	53.9	11686.	2695.	0.0	0.	HVC BIT	LATENT
001	WASH	10.7	39.2	43.9	16.9	0.7	11607.	0.0	0.0	0.0	0.0	53.8	12290.	2815.	1.3	0.	HVC BIT	LATENT
402	RAW	12.9	35.7	48.8	15.5	0.6	11534.	4.8	67.0	1.5	12.0	58.7	11696.	2910.	0.0	0.	HVC BIT	LATENT
403	RAW	9.6	37.6	46.2	16.2	0.7	11710.	5.0	65.4	1.4	11.4	56.2	12481.	2590.	0.0	0.	HVC BIT	LATENT
403	WASH	7.2	30.3	46.3	21.4	1.0	11500.	0.0	0.0	0.0	0.0	63.1	13440.	0.	0.0	0.	HVB BIT	LATENT
404	RAW	13.2	38.5	48.9	12.6	0.8	12032.	5.0	67.3	1.5	13.5	56.7	11754.	2630.	0.0	0.	HVC BIT	LATENT
405	RAW	10.9	35.8	48.9	15.3	0.9	11661.	5.1	67.8	1.5	11.4	58.8	12076.	2655.	0.0	0.	HVC BIT	LATENT
406	RAW	7.5	34.7	47.7	17.7	0.9	11739.	4.8	65.7	1.6	10.4	59.1	13063.	2910.	0.0	0.	HVB BIT	LATENT
407	RAW	5.5	35.8	45.5	18.7	0.8	11763.	5.0	68.9	1.5	9.8	57.2	13621.	0.	0.0	0.	HVB BIT	LATENT
408	RAW	13.9	39.8	47.5	12.7	0.7	11990.	5.4	66.8	1.6	12.8	55.2	11628.	0.	0.0	0.	HVC BIT	LATENT
410	RAW	13.9	39.0	47.3	13.8	0.6	11620.	5.1	65.7	1.6	13.3	55.7	11410.	0.	0.0	0.	HVC BIT	LATENT
415	RAW	14.8	42.6	49.4	8.0	1.2	12730.	5.5	69.8	1.5	14.0	54.3	11582.	0.	0.0	0.	HVC BIT	MARGINAL
417	RAW	10.1	38.1	41.6	20.3	0.6	10890.	4.8	61.1	1.7	11.5	53.4	12115.	0.	0.0	0.	HVC BIT	LATENT
423	RAW	16.1	38.9	49.8	11.3	0.6	11743.	5.2	66.7	2.0	14.3	56.8	10903.	2210.	0.0	0.	HVC BIT	MARGINAL
425	RAW	15.3	38.8	51.1	10.1	0.7	11970.	5.2	67.6	2.0	14.5	57.5	11111.	2495.	0.0	0.	HVC BIT	MARGINAL
431	RAW	5.1	36.3	50.1	13.6	0.8	12610.	5.1	69.9	1.2	9.4	58.9	13794.	0.	0.0	0.	HVB BIT	LATENT
432	RAW	4.6	34.0	49.6	16.4	0.7	12437.	5.3	71.5	1.9	6.7	60.5	14169.	0.	0.0	0.	HVA BIT	LATENT
434	RAW	5.0	36.4	47.2	16.4	0.7	12265.	5.3	67.8	1.8	8.1	57.5	13906.	0.	0.0	0.	HVB BIT	LATENT
436	RAW	5.4	34.9	49.8	15.3	0.7	12240.	4.9	67.7	1.4	10.0	59.8	13626.	0.	0.0	0.	HVB BIT	LATENT
440	WASH	5.4	31.7	50.6	17.8	0.8	12195.	0.0	0.0	0.0	0.0	62.8	13975.	0.	0.0	0.	HVB BIT	LATENT
441	RAW	4.6	37.1	50.4	12.5	1.0	12835.	5.2	70.6	1.2	9.5	58.5	13913.	0.	0.0	0.	HVB BIT	LATENT
444	RAW	5.6	33.7	43.2	23.1	0.5	11020.	4.5	63.4	1.4	7.1	57.7	13531.	0.	0.0	0.	HVB BIT	LATENT
446	RAW	4.0	36.6	50.8	12.6	0.5	12850.	5.3	70.3	1.8	9.5	58.9	14119.	0.	0.0	0.	HVA BIT	LATENT
447	RAW	4.6	32.5	54.7	12.8	0.8	13340.	5.0	73.4	1.1	6.9	63.7	14545.	0.	0.0	0.	HVA BIT	LATENT
448	RAW	15.2	38.9	49.3	11.9	0.7	11725.	5.5	68.3	2.1	12.8	56.6	11084.	2613.	0.0	0.	HVC BIT	MARGINAL

AVERAGE COALBED ANALYSES FOR STATE: 53 WASHINGTON

BED	TYPE ANAL	PROXIMATE MOI REC	PROXIMATE DRY VOL MATT	PROXIMATE DRY FIXD CARB	PROXIMATE DRY ASH	DRY SUL	DRY BTU	ULTIMATE DRY HYD	ULTIMATE DRY CAR	ULTIMATE DRY NIT	ULTIMATE DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
449	RAW	7.3	43.5	50.2	6.3	0.7	13350.	5.5	73.7	1.9	11.9	54.0	13124.	0.	0.0	0.	HVB BIT	PREMIUM
451	RAW	9.1	39.8	44.3	16.0	0.7	11677.	4.8	64.8	1.7	12.1	53.6	12497.	0.	0.0	0.	HVC BIT	LATENT
453	RAW	7.4	40.4	47.5	12.1	0.6	12420.	5.2	69.0	1.6	11.5	54.7	13007.	0.	0.0	0.	HVB BIT	LATENT
455	RAW	9.5	40.1	49.8	10.1	0.7	12655.	5.1	70.8	1.7	11.6	56.0	12638.	0.	0.0	0.	HVC BIT	MARGINAL
458	RAW	6.2	34.4	48.0	17.5	0.6	12008.	5.1	68.7	1.3	8.3	59.4	13621.	2555.	0.0	0.	HVB BIT	LATENT
460	RAW	4.4	34.9	49.9	15.2	0.6	12390.	5.1	69.0	1.5	8.6	59.8	13963.	2460.	0.0	0.	HVB BIT	LATENT
478	RAW	10.7	34.7	37.6	27.8	0.4	9940.	0.0	0.0	0.0	0.0	53.8	12056.	2640.	0.0	0.	HVC BIT	LATENT
799	RAW	10.6	37.7	46.8	15.4	0.8	11790.	5.0	65.5	1.4	11.2	56.3	12285.	2562.	1.0	0.	HVC BIT	LATENT
799	WASH	12.2	38.7	46.4	14.9	0.7	11834.	5.0	66.7	1.5	12.9	55.4	12033.	2695.	1.0	0.	HVC BIT	LATENT
826	RAW	12.6	40.4	43.5	16.1	1.1	11357.	4.9	64.7	1.4	13.3	52.8	11573.	2810.	0.0	0.	HVC BIT	LATENT
826	WASH	14.1	39.7	45.2	15.0	0.5	11633.	0.0	0.0	0.0	0.0	54.1	11553.	2833.	0.0	0.	HVC BIT	LATENT
827	RAW	12.7	38.7	48.4	12.9	0.7	11540.	0.0	0.0	0.0	0.0	56.4	11384.	2620.	0.0	0.	HVC BIT	LATENT
827	WASH	16.4	40.6	49.9	9.5	0.7	12040.	0.0	0.0	0.0	0.0	55.7	10939.	2670.	0.0	0.	HVC BIT	MARGINAL
828	RAW	8.8	42.5	50.6	7.0	0.7	13059.	5.4	72.5	1.9	12.8	54.8	12702.	2349.	0.0	0.	HVC BIT	PREMIUM
828	WASH	11.5	42.8	50.1	7.1	0.7	12986.	0.0	0.0	0.0	0.0	54.3	12259.	2469.	0.0	0.	HVC BIT	PREMIUM
829	RAW	10.8	39.7	47.0	13.3	0.5	11957.	5.3	65.0	1.8	12.2	55.0	12172.	2544.	0.0	0.	HVC BIT	LATENT
829	WASH	10.7	38.5	47.1	14.4	0.6	11760.	0.0	0.0	0.0	0.0	55.9	12123.	2710.	0.0	0.	HVC BIT	LATENT
960	RAW	13.3	39.5	44.1	16.5	0.5	11428.	0.0	0.0	0.0	0.0	53.7	11658.	2640.	0.0	0.	HVC BIT	LATENT
960	WASH	15.7	40.0	45.0	15.0	0.5	11577.	5.0	64.9	1.5	13.0	53.8	11247.	2657.	0.0	0.	HVC BIT	LATENT
973	RAW	18.0	40.8	42.0	17.2	0.5	11080.	0.0	0.0	0.0	0.0	51.7	10666.	0.	0.0	0.	HVC BIT	LATENT
COUNTY:	37	KITTITAS																
002	RAW	3.0	39.0	45.8	15.2	0.4	12530.	0.0	0.0	0.0	0.0	54.9	14396.	2460.	0.0	0.	HVA BIT	LATENT
002	WASH	3.4	38.3	47.6	14.1	0.4	12760.	0.0	0.0	0.0	0.0	56.2	14407.	2623.	0.0	0.	HVA BIT	LATENT
402	RAW	7.6	38.3	48.3	13.4	0.4	12230.	5.3	68.6	1.5	10.8	56.5	12993.	2320.	0.0	0.	HVC BIT	LATENT
404	RAW	3.3	34.6	51.1	14.4	0.5	12525.	5.4	69.7	1.7	8.3	60.6	14174.	2585.	0.0	0.	HVA BIT	LATENT
407	RAW	4.2	33.9	52.3	13.8	0.5	12900.	0.0	0.0	0.0	0.0	61.6	14345.	2360.	0.0	0.	HVA BIT	LATENT
478	RAW	10.4	33.9	40.6	25.5	1.3	10020.	0.0	0.0	0.0	0.0	56.3	11742.	2760.	0.0	0.	HVC BIT	LATENT
799	RAW	6.7	35.2	45.7	19.2	0.8	11650.	4.7	64.3	1.2	6.9	57.8	13357.	2403.	0.0	0.	HVB BIT	LATENT
821	RAW	4.1	36.1	45.0	18.9	0.3	11863.	5.3	70.1	1.7	8.3	56.6	14093.	2683.	0.0	0.	HVA BIT	LATENT

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BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
821	WASH	4.0	38.0	46.2	15.8	0.3	12449.	0.0	0.0	0.0	0.0	55.8	14244.	2844.	4.5	0.	HVA BIT	LATENT
823	RAW	3.8	38.2	47.4	14.4	0.4	12683.	5.4	70.8	1.5	9.0	56.2	14274.	2334.	0.0	0.	HVA BIT	LATENT
823	WASH	4.9	39.4	47.5	13.1	0.4	12869.	5.4	72.1	1.7	8.8	55.4	14089.	2383.	3.2	0.	HVA BIT	LATENT
824	RAW	5.4	36.2	47.0	16.8	0.4	12240.	5.5	67.4	1.5	8.4	57.5	13920.	2550.	0.0	0.	HVB BIT	LATENT
824	WASH	4.8	36.9	47.0	16.1	0.4	12289.	5.4	71.9	1.6	7.5	57.0	13954.	2676.	0.0	0.	HVB BIT	LATENT
833	RAW	4.6	31.8	43.8	24.4	0.4	11360.	4.9	65.3	1.4	6.5	59.6	14411.	2767.	0.0	0.	HVA BIT	LATENT
961	RAW	4.8	39.5	47.5	13.0	0.4	12860.	0.0	0.0	0.0	0.0	55.3	14076.	0.	0.0	0.	HVA BIT	LATENT
961	WASH	4.1	39.0	47.3	13.6	0.4	12773.	0.0	0.0	0.0	0.0	55.6	14207.	2430.	3.0	0.	HVA BIT	LATENT
962	WASH	4.3	37.3	47.2	15.5	0.5	12486.	0.0	0.0	0.0	0.0	56.8	14162.	2660.	0.0	0.	HVA BIT	LATENT
COUNTY:	41	LEWIS																
402	RAW	7.7	12.7	58.6	28.7	1.2	10560.	3.0	62.5	1.0	3.6	85.5	13460.	2710.	0.0	0.	LV BIT	LATENT
403	RAW	4.2	28.0	53.9	18.2	1.2	12140.	4.6	69.3	1.4	5.3	67.4	14138.	2240.	0.0	0.	HVA BIT	LATENT
404	RAW	10.7	37.7	42.5	19.8	0.8	10956.	5.1	62.5	1.4	14.0	54.2	11988.	2480.	0.0	0.	HVC BIT	LATENT
405	RAW	7.5	36.5	38.3	25.3	0.9	10315.	0.0	0.0	0.0	0.0	52.8	12635.	0.	0.0	0.	HVC BIT	LATENT
406	RAW	9.3	15.9	33.8	50.3	0.7	6320.	2.2	38.7	0.9	7.2	74.4	11161.	2530.	0.0	0.	MV BIT	LATENT
407	RAW	3.9	8.7	60.7	30.6	0.7	10192.	3.0	68.5	1.2	3.2	91.0	14230.	0.	0.0	0.	SEMIANTH	
500	RAW	9.1	30.6	36.5	32.9	0.7	8860.	0.0	0.0	0.0	0.0	56.8	11788.	0.	0.0	0.	HVC BIT	LATENT
799	RAW	24.8	42.0	44.4	13.6	1.2	10994.	4.9	62.9	1.2	16.9	52.3	9187.	2281.	0.0	0.	SUBBIT C	
799	WASH	25.3	42.8	42.9	14.3	0.8	10988.	0.0	0.0	0.0	0.0	50.8	9211.	2431.	1.0	0.	SUBBIT C	
COUNTY:	53	PIERCE																
001	WASH	4.5	35.0	51.3	13.7	0.8	13036.	0.0	0.0	0.0	0.0	60.4	14376.	2600.	0.0	0.	HVA BIT	LATENT
402	RAW	4.5	26.3	59.8	14.0	1.3	13182.	5.0	72.2	2.1	5.2	70.8	14514.	2490.	0.0	0.	MV BIT	LATENT
403	RAW	3.9	27.4	57.7	14.9	0.8	13028.	4.8	74.5	2.1	4.8	68.9	14698.	2593.	0.0	0.	HVA BIT	LATENT
403	WASH	6.7	19.0	58.3	22.7	0.8	11840.	0.0	0.0	0.0	0.0	77.5	14199.	0.	0.0	0.	MV BIT	LATENT
404	RAW	3.3	29.3	56.0	14.6	0.4	13029.	4.9	73.7	2.0	5.2	66.7	14799.	2547.	0.0	0.	HVA BIT	LATENT
404	WASH	4.7	30.5	52.8	16.7	0.5	12730.	0.0	0.0	0.0	0.0	64.5	14575.	0.	0.0	0.	HVA BIT	LATENT
405	RAW	3.2	31.5	54.9	13.6	0.6	13125.	5.2	73.1	2.0	5.5	64.5	14724.	2446.	0.0	0.	HVA BIT	LATENT

AVERAGE COALBED ANALYSES FOR STATE: 53 WASHINGTON

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
406	RAW	3.3	26.1	59.7	14.1	0.6	12975.	4.9	73.1	2.2	5.1	70.7	14632.	2890.	0.0	0.	MV BIT	LATENT
407	WASH	3.5	23.4	66.7	9.9	0.5	14010.	0.0	0.0	0.0	0.0	74.8	15004.	0.	0.0	0.	MV BIT	MARGINAL
465	RAW	4.0	35.8	48.9	15.3	0.4	12760.	5.3	70.2	2.0	6.8	58.7	14500.	0.	0.0	0.	HVA BIT	LATENT
469	RAW	2.2	30.8	49.2	20.1	0.5	12095.	4.7	67.1	2.0	5.7	62.9	14925.	2725.	0.0	0.	HVA BIT	LATENT
471	RAW	12.4	40.6	45.6	13.8	0.7	11820.	5.1	65.4	1.8	13.2	53.7	11828.	2380.	0.0	0.	HVC BIT	LATENT
475	RAW	5.8	16.2	58.1	25.7	0.4	11050.	0.0	0.0	0.0	0.0	80.6	14029.	2650.	0.0	0.	LV BIT	LATENT
478	RAW	3.6	22.8	58.5	18.7	0.5	12540.	4.5	70.4	2.0	3.9	73.4	14919.	2597.	0.0	0.	MV BIT	LATENT
479	RAW	2.9	32.3	53.6	14.1	0.6	12950.	5.1	72.2	2.2	5.7	63.4	14674.	2530.	0.0	0.	HVA BIT	LATENT
480	RAW	4.5	34.9	46.1	19.0	0.4	11680.	5.2	64.5	1.8	9.1	58.1	13813.	2900.	0.0	0.	HVB BIT	LATENT
481	RAW	4.5	29.8	49.8	20.4	0.4	11800.	4.6	65.3	1.9	7.4	64.0	14210.	2740.	0.0	0.	HVA BIT	LATENT
484	RAW	3.3	21.7	65.1	13.2	0.7	13510.	4.7	75.7	2.0	3.7	76.1	15049.	2240.	0.0	0.	MV BIT	LATENT
799	RAW	4.3	30.8	51.7	17.5	1.1	12358.	4.8	68.1	1.9	6.8	64.1	14270.	2513.	0.0	0.	HVA BIT	LATENT
799	WASH	5.4	34.6	50.9	14.5	0.7	12878.	5.0	75.1	2.4	4.3	60.5	14200.	2870.	0.0	0.	HVA BIT	LATENT
982	RAW	3.3	38.0	48.4	13.6	0.4	12950.	0.0	0.0	0.0	0.0	56.8	14537.	0.	0.0	0.	HVA BIT	LATENT
982	WASH	7.4	29.6	54.2	16.3	0.5	12770.	0.0	0.0	0.0	0.0	65.8	14049.	0.	0.0	0.	HVA BIT	LATENT
984	WASH	5.4	21.0	65.9	13.1	0.5	13610.	0.0	0.0	0.0	0.0	76.9	14793.	0.	0.0	0.	MV BIT	LATENT
COUNTY:	67	THURSTON																
487	RAW	17.9	33.9	35.7	30.4	3.2	8600.	4.3	47.7	0.8	13.6	53.8	9302.	2600.	0.0	0.	SUBBIT C	
799	RAW	20.2	41.1	44.3	14.6	1.7	10999.	4.8	63.2	1.2	16.0	52.8	9876.	2329.	0.0	0.	SUBBIT B	
799	WASH	21.4	41.1	43.1	15.9	2.2	10942.	4.6	57.7	0.9	12.0	52.3	9736.	2353.	0.0	0.	SUBBIT B	
826	RAW	22.0	41.2	45.2	13.6	0.5	11234.	5.2	63.5	1.1	15.5	53.0	9851.	2314.	0.0	0.	SUBBIT B	
COUNTY:	73	WHATCOM																
799	RAW	6.1	9.5	80.2	10.3	1.1	13556.	2.6	81.3	1.0	1.3	90.6	14059.	2576.	0.0	0.	SEMIANTH	
831	RAW	7.2	38.2	44.7	17.1	0.4	11253.	4.8	64.7	1.2	13.1	54.9	12559.	245..	0.0	0.	HVC BIT	LATENT
831	WASH	8.5	37.7	43.7	18.6	0.4	11126.	4.9	63.2	1.2	12.2	54.8	12417.	2570.	0.0	0.	HVC BIT	LATENT

AVERAGE COALBED ANALYSES FOR STATE: 54 WEST VIRGINIA

BED	TYPE ANAL	MOI REC	PROXIMATE DRY VOL MATT	PROXIMATE DRY FIXD CARB	PROXIMATE DRY ASH	DRY SUL	DRY BTU	ULTIMATE DRY HYD	ULTIMATE DRY CAR	ULTIMATE DRY NIT	ULTIMATE DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
COUNTY:	1	BARBOUR																
001	RAW	2.1	37.8	52.5	9.7	3.3	13690.	0.0	0.0	0.0	0.0	59.3	14469.	2181.	7.7	0.	HVA BIT	LATENT
033	RAW	3.4	36.2	54.4	9.3	2.4	13654.	5.1	76.4	1.4	6.2	61.0	14286.	2234.	7.9	61.	HVA BIT	LATENT
033	WASH	5.6	38.3	55.2	6.5	1.6	14210.	0.0	0.0	0.0	0.0	59.7	14159.	2180.	8.0	0.	HVA BIT	MARGINAL
036	RAW	2.3	37.8	52.2	10.0	3.3	13690.	5.1	74.6	1.4	4.6	59.1	14485.	2141.	7.7	63.	HVA BIT	LATENT
036	WASH	1.8	39.5	53.0	7.5	2.5	14164.	5.4	77.9	1.5	4.7	58.1	14768.	2250.	7.4	0.	HVA BIT	LATENT
063	RAW	3.8	32.4	56.4	11.3	2.7	13506.	0.0	0.0	0.0	0.0	64.8	14336.	2270.	7.2	68.	HVA BIT	LATENT
071	RAW	4.2	29.9	53.7	16.4	2.4	12625.	4.9	74.7	1.5	4.6	65.9	14220.	2595.	7.2	70.	HVA BIT	LATENT
076	RAW	3.8	29.6	54.4	16.0	2.2	12665.	4.3	66.0	1.3	5.0	66.3	14295.	2565.	7.5	73.	HVA BIT	LATENT
080	RAW	1.8	30.3	52.3	17.3	2.7	12535.	0.0	0.0	0.0	0.0	65.1	14668.	2615.	7.7	0.	HVA BIT	LATENT
080	WASH	2.3	33.3	57.8	8.9	1.3	14049.	0.0	0.0	0.0	0.0	64.3	14943.	2813.	7.5	63.	HVA BIT	MARGINAL
084	RAW	2.8	29.9	58.3	11.8	1.3	13531.	4.7	74.8	1.4	4.5	67.2	14827.	2811.	7.6	71.	HVA BIT	MARGINAL
924	RAW	2.9	30.0	56.7	13.3	2.3	13150.	0.0	0.0	0.0	0.0	66.8	14501.	2640.	8.0	66.	HVA BIT	LATENT
955	RAW	2.6	38.0	53.1	8.9	3.0	13854.	0.0	0.0	0.0	0.0	59.4	14467.	2149.	7.6	61.	HVA BIT	LATENT
955	WASH	2.4	38.9	53.7	7.4	2.4	14104.	0.0	0.0	0.0	0.0	58.9	14604.	2188.	8.0	56.	HVA BIT	LATENT
COUNTY:	5	BOONE																
001	RAW	2.3	35.0	57.5	7.5	0.6	14077.	0.0	0.0	0.0	0.0	62.7	14845.	2900.	0.0	0.	HVA BIT	PREMIUM
001	WASH	3.5	37.8	56.8	5.4	0.8	14420.	0.0	0.0	0.0	0.0	60.5	14630.	2910.	7.7	0.	HVA BIT	PREMIUM
084	RAW	3.5	36.5	55.9	7.6	0.7	13855.	0.0	0.0	0.0	0.0	61.0	14424.	2905.	5.5	46.	HVA BIT	PREMIUM
084	WASH	4.1	36.5	55.4	8.1	0.7	13842.	0.0	0.0	0.0	0.0	60.8	14398.	2910.	5.9	47.	HVA BIT	MARGINAL
103	WASH	3.2	40.2	56.4	3.4	0.7	14730.	0.0	0.0	0.0	0.0	58.7	14715.	2910.	0.0	0.	HVA BIT	PREMIUM
111	RAW	3.4	35.5	55.0	9.5	0.8	13705.	5.0	78.1	1.5	7.9	61.4	14590.	2881.	4.5	0.	HVA BIT	MARGINAL
111	WASH	3.0	36.1	57.4	6.5	0.7	14229.	0.0	0.0	0.0	0.0	61.9	14702.	2886.	6.3	0.	HVA BIT	PREMIUM
117	RAW	3.2	36.1	58.1	5.8	0.9	14330.	5.2	80.3	1.6	6.2	62.2	14646.	2560.	8.5	54.	HVA BIT	PREMIUM
121	RAW	2.9	34.9	56.8	8.3	0.7	13868.	5.3	82.1	1.5	6.1	62.5	14651.	2898.	5.5	47.	HVA BIT	MARGINAL
121	WASH	3.8	35.5	57.6	6.9	0.7	14184.	0.0	0.0	0.0	0.0	62.4	14607.	2909.	7.5	50.	HVA BIT	PREMIUM
135	RAW	4.0	36.2	55.4	8.4	0.9	13736.	4.7	72.8	0.7	7.6	61.1	14329.	2802.	5.6	47.	HVA BIT	MARGINAL
135	WASH	4.3	38.4	56.8	4.7	0.7	14353.	0.0	0.0	0.0	0.0	60.0	14355.	2870.	6.7	44.	HVA BIT	PREMIUM
137	RAW	2.1	36.1	57.7	6.2	0.8	14418.	5.4	81.2	1.5	5.9	62.0	14998.	2750.	7.0	53.	HVA BIT	PREMIUM

AVERAGE COALBED ANALYSES FOR STATE: 54 WEST VIRGINIA

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
137	WASH	3.2	35.9	59.3	4.7	0.7	14650.	5.2	82.7	1.5	5.6	62.7	14821.	2842.	6.3	45.	HVA BIT	PREMIUM
151	RAW	3.1	36.9	54.9	8.2	1.1	13887.	5.2	78.4	1.6	6.8	60.4	14558.	2641.	5.7	48.	HVA BIT	MARGINAL
151	WASH	3.0	37.3	57.2	5.5	1.0	14422.	5.3	81.4	1.5	5.4	61.0	14722.	2713.	7.1	50.	HVA BIT	PREMIUM
154	RAW	5.5	37.3	56.9	5.8	0.8	14170.	5.2	79.2	1.5	7.5	60.9	14131.	2830.	4.5	49.	HVA BIT	PREMIUM
157	RAW	2.7	38.3	54.5	7.3	2.0	14067.	5.3	78.4	1.5	5.9	59.5	14549.	2359.	6.8	48.	HVA BIT	LATENT
168	RAW	3.5	37.0	55.6	7.3	1.3	13943.	5.0	77.3	1.3	4.7	60.7	14388.	2584.	6.7	55.	HVA BIT	MARGINAL
168	WASH	4.2	38.3	56.1	5.6	0.9	14135.	0.0	0.0	0.0	0.0	59.9	14260.	2760.	0.0	0.	HVA BIT	PREMIUM
896	WASH	3.4	37.0	57.6	5.3	0.8	14377.	5.3	81.8	1.6	6.0	61.3	14608.	2808.	7.7	46.	HVA BIT	PREMIUM
930	RAW	3.8	37.5	56.4	6.2	1.1	14032.	0.0	0.0	0.0	0.0	60.6	14285.	2570.	5.5	48.	HVA BIT	MARGINAL
958	RAW	2.7	37.0	59.1	3.9	0.6	14670.	0.0	0.0	0.0	0.0	61.8	14804.	2910.	0.0	0.	HVA BIT	PREMIUM
958	WASH	3.7	35.5	57.6	6.9	0.7	14122.	0.0	0.0	0.0	0.0	62.4	14566.	2910.	6.5	0.	HVA BIT	PREMIUM
959	WASH	3.8	37.1	57.2	5.7	0.7	14205.	0.0	0.0	0.0	0.0	61.1	14439.	2910.	6.0	47.	HVA BIT	PREMIUM
965	RAW	2.5	34.6	53.3	12.1	0.8	13267.	0.0	0.0	0.0	0.0	61.5	14724.	2907.	0.0	0.	HVA BIT	LATENT
965	WASH	3.5	35.4	55.8	8.8	0.8	13724.	0.0	0.0	0.0	0.0	61.8	14469.	2909.	5.0	40.	HVA BIT	MARGINAL
967	RAW	4.1	36.3	55.1	8.6	1.3	13714.	5.3	80.8	1.5	6.9	61.0	14252.	2771.	5.4	48.	HVA BIT	MARGINAL
967	WASH	3.3	41.0	53.7	5.3	1.6	14357.	0.0	0.0	0.0	0.0	57.3	14484.	2410.	0.0	35.	HVA BIT	MARGINAL
COUNTY:	7	BRAXTON																
036	RAW	3.1	40.5	50.0	9.5	2.8	13513.	0.0	0.0	0.0	0.0	56.2	14149.	2103.	5.9	55.	HVA BIT	LATENT
036	WASH	3.0	41.4	51.5	7.1	1.6	13933.	5.3	78.7	1.4	7.2	56.1	14381.	2228.	6.5	0.	HVA BIT	MARGINAL
COUNTY:	9	BROOKE																
036	RAW	5.6	37.0	51.6	11.5	2.9	12964.	5.0	74.6	1.5	7.0	59.4	13469.	2201.	6.5	54.	HVB BIT	LATENT
036	WASH	5.4	38.0	54.7	7.3	1.9	13733.	0.0	0.0	0.0	0.0	59.8	13809.	2273.	7.0	51.	HVB BIT	LATENT
COUNTY:	15	CLAY																
076	RAW	3.9	38.6	52.5	9.0	2.1	13625.	5.1	75.4	1.5	6.7	58.5	14173.	2610.	6.5	52.	HVA BIT	LATENT
080	RAW	2.8	36.5	52.4	11.1	0.9	13317.	5.0	74.6	1.4	7.0	59.7	14515.	2910.	5.7	45.	HVA BIT	MARGINAL
084	RAW	2.8	36.2	53.2	10.6	0.8	13412.	5.2	78.8	1.5	6.2	60.2	14554.	2881.	6.0	45.	HVA BIT	MARGINAL
084	WASH	3.0	38.2	54.4	7.5	0.9	14023.	0.0	0.0	0.0	0.0	59.3	14621.	2903	6.5	44.	HVA BIT	PREMIUM
087	RAW	1.7	37.9	51.8	10.3	0.6	13640.	5.1	76.2	1.4	6.4	58.4	14967.	2910.	3.5	38.	HVA BIT	MARGINAL

AVERAGE COALBED ANALYSES FOR STATE: 54 WEST VIRGINIA

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
COUNTY:	19 FAYETTE																	
001	RAW	2.8	27.9	63.4	8.7	0.9	14095.	4.8	81.3	1.5	3.7	70.2	14941.	2725.	6.5	69.	MV BIT	MARGINAL
001	WASH	2.9	26.2	68.1	5.7	0.7	14614.	0.0	0.0	0.0	0.0	72.8	14997.	2786.	7.7	47.	MV BIT	PREMIUM
084	RAW	3.9	35.5	58.9	5.6	0.7	14185.	0.0	0.0	0.0	0.0	62.8	14381.	2910.	5.7	44.	HVA BIT	PREMIUM
111	RAW	3.5	34.9	56.7	8.5	0.9	13898.	5.3	79.3	1.6	5.8	62.6	14593.	2910.	6.7	43.	HVA BIT	MARGINAL
157	RAW	2.8	29.4	63.0	7.6	0.7	14367.	5.0	83.4	1.5	3.8	68.8	15077.	2900.	0.0	0.	HVA BIT	PREMIUM
167	RAW	2.1	34.7	57.5	7.8	2.2	14210.	0.0	0.0	0.0	0.0	63.3	14853.	2480.	6.5	59.	HVA BIT	LATENT
168	RAW	3.0	33.1	60.5	6.3	0.9	14371.	5.1	81.5	1.5	5.1	65.2	14799.	2696.	8.1	59.	HVA BIT	PREMIUM
168	WASH	3.1	38.0	56.7	5.3	0.9	14505.	0.0	0.0	0.0	0.0	60.4	14760.	2820.	7.0	53.	HVA BIT	PREMIUM
170	RAW	2.5	33.5	60.1	6.4	0.8	14466.	5.4	81.1	1.5	5.2	64.8	15023.	2790.	9.0	71.	HVA BIT	PREMIUM
176	RAW	2.6	30.2	63.4	6.3	0.8	14481.	5.1	82.5	1.5	4.7	68.3	15007.	2782.	7.4	74.	HVA BIT	PREMIUM
179	RAW	2.7	31.6	61.5	6.8	0.8	14470.	5.4	82.6	1.6	4.2	66.6	15065.	2693.	7.1	59.	HVA BIT	PREMIUM
285	RAW	2.6	25.5	69.9	4.6	0.7	14847.	4.9	85.4	1.7	3.6	73.7	15093.	2594.	8.4	96.	MV BIT	PREMIUM
285	WASH	3.7	25.7	70.9	3.4	0.7	15061.	5.0	87.3	1.7	3.8	73.8	14940.	2502.	8.8	91.	MV BIT	PREMIUM
318	RAW	2.6	20.8	72.8	6.4	0.8	14635.	4.6	83.3	1.5	2.8	78.4	15170.	2688.	8.5	97.	LV BIT	PREMIUM
318	WASH	4.3	21.0	73.0	6.0	0.8	14691.	0.0	0.0	0.0	0.0	78.3	14883.	2525.	9.0	0.	LV BIT	PREMIUM
334	RAW	3.0	19.8	70.8	9.4	0.9	14054.	4.4	79.6	1.2	3.2	79.1	15005.	2890.	7.8	92.	LV BIT	MARGINAL
863	RAW	3.0	41.8	49.4	8.7	0.7	13800.	0.0	0.0	0.0	0.0	54.7	14626.	2880.	0.0	0.	HVA BIT	MARGINAL
898	RAW	2.7	30.1	61.2	8.8	1.0	14120.	5.0	81.1	1.6	4.5	67.8	14989.	2635.	9.0	74.	HVA BIT	MARGINAL
919	RAW	2.6	22.8	72.1	5.2	0.7	14786.	0.0	0.0	0.0	0.0	76.5	15123.	2567.	9.0	0.	MV BIT	PREMIUM
919	WASH	3.9	23.1	72.2	4.7	0.7	14885.	4.8	84.4	1.6	3.7	76.3	14934.	2668.	9.0	91.	MV BIT	PREMIUM
920	RAW	3.7	20.0	73.4	6.6	0.8	14522.	0.0	0.0	0.0	0.0	79.2	14905.	2770.	5.7	101.	LV BIT	PREMIUM
920	WASH	7.2	18.9	72.6	8.5	0.6	14040.	0.0	0.0	0.0	0.0	80.1	14165.	2870.	0.0	0.	LV BIT	MARGINAL
948	RAW	4.7	33.9	55.3	10.8	0.7	13350.	0.0	0.0	0.0	0.0	62.8	14226.	2910.	0.0	0.	HVA BIT	MARGINAL
960	RAW	2.7	33.1	60.6	6.3	0.7	14520.	5.2	81.3	1.5	5.0	65.2	15041.	2805.	0.0	0.	HVA BIT	PREMIUM
961	RAW	5.1	28.8	64.4	6.8	0.7	14483.	0.0	0.0	0.0	0.0	69.6	14675.	2883.	6.5	80.	MV BIT	PREMIUM
964	RAW	2.7	32.9	59.0	8.1	1.1	14061.	0.0	0.0	0.0	0.0	65.0	14600.	2757.	0.0	0.	HVA BIT	MARGINAL

AVERAGE COALBED ANALYSES FOR STATE: 54 WEST VIRGINIA

BED	TYPE ANAL	MOI REC	PROXIMATE DRY VOL MATT	PROXIMATE DRY FIXD CARB	PROXIMATE DRY ASH	DRY SUL	DRY BTU	ULTIMATE DRY HYD	ULTIMATE DRY CAR	ULTIMATE DRY NIT	ULTIMATE DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
976	WASH	4.2	38.0	56.9	5.2	0.8	14545.	0.0	0.0	0.0	0.0	60.4	14613.	2910.	7.0	46.	HVA BIT	PREMIUM
COUNTY:	21	GILMER																
036	RAW	3.3	40.6	50.1	9.3	2.5	13527.	5.4	75.3	1.2	7.6	56.1	14154.	2139.	6.1	54.	HVA BIT	LATENT
036	WASH	2.8	41.2	52.2	6.6	1.4	14001.	5.2	75.7	1.4	6.9	56.4	14442.	2239.	6.2	54.	HVA BIT	MARGINAL
COUNTY:	23	GRANT																
055	RAW	3.4	16.8	66.3	15.0	2.7	13130.	0.0	0.0	0.0	0.0	82.4	14635.	2190.	5.5	86.	LV BIT	LATENT
063	RAW	3.9	18.1	70.7	11.2	1.4	13747.	4.0	75.7	1.4	2.2	80.9	14755.	2655.	6.5	96.	LV BIT	MARGINAL
063	WASH	5.3	24.5	67.2	8.4	1.7	14168.	4.8	83.9	1.6	2.9	74.3	14447.	2406.	9.0	93.	MV BIT	MARGINAL
071	RAW	2.3	17.8	67.0	15.2	2.0	13123.	4.5	81.7	1.5	1.9	80.8	14966.	2597.	0.0	0.	LV BIT	LATENT
940	RAW	9.2	24.3	64.3	11.4	1.8	13450.	0.0	0.0	0.0	0.0	73.9	13521.	2230.	5.5	0.	MV BIT	MARGINAL
940	WASH	6.2	25.7	65.3	7.9	1.4	14190.	0.0	0.0	0.0	0.0	72.9	14295.	2730.	0.0	0.	MV BIT	MARGINAL
950	RAW	3.1	22.2	67.6	10.2	0.9	13930.	0.0	0.0	0.0	0.0	76.2	14982.	2360.	9.0	105.	MV BIT	MARGINAL
950	WASH	5.5	22.0	68.7	9.3	0.6	14070.	4.6	80.4	1.6	3.3	76.6	14582.	2650.	0.0	0.	MV BIT	MARGINAL
COUNTY:	25	GREENBRIER																
001	RAW	3.8	25.1	67.2	7.6	1.3	14242.	0.0	0.0	0.0	0.0	73.6	14700.	2580.	7.6	0.	MV BIT	MARGINAL
285	RAW	3.3	26.3	66.2	5.5	1.1	14613.	4.9	82.7	1.7	4.1	72.8	14846.	2486.	8.5	83.	MV BIT	MARGINAL
285	WASH	3.5	26.8	68.5	4.7	0.9	14841.	0.0	0.0	0.0	0.0	72.4	14939.	2446.	0.0	0.	MV BIT	PREMIUM
311	RAW	4.0	25.0	64.8	10.2	1.3	13879.	0.0	0.0	0.0	0.0	73.2	14703.	2683.	8.0	87.	MV BIT	MARGINAL
318	RAW	2.6	22.4	72.0	5.6	0.9	14776.	4.7	82.9	1.4	2.9	76.9	15176.	2739.	8.6	95.	MV BIT	PREMIUM
334	RAW	2.9	22.5	66.0	11.5	1.1	13803.	4.5	81.6	1.4	2.8	75.7	15084.	2677.	8.5	85.	MV BIT	MARGINAL
334	WASH	3.2	22.5	70.8	6.7	0.6	14650.	4.8	83.4	1.4	3.1	76.5	15166.	2860.	0.0	0.	MV BIT	PREMIUM
919	RAW	3.1	24.6	69.3	6.1	1.0	14526.	4.6	81.9	1.6	3.7	74.5	14901.	2548.	9.0	89.	MV BIT	PREMIUM
919	WASH	5.1	25.6	66.7	5.7	0.9	14673.	0.0	0.0	0.0	0.0	73.4	14675.	2707.	9.0	84.	MV BIT	PREMIUM
989	RAW	3.4	24.6	67.4	8.0	1.3	14280.	0.0	0.0	0.0	0.0	74.1	14870.	2780.	8.0	0.	MV BIT	MARGINAL
COUNTY:	29	HANCOCK																
070	RAW	4.7	36.0	58.4	5.6	1.9	14090.	5.0	77.4	1.4	7.4	62.6	14001.	2163.	0.0	0.	HVA BIT	LATENT
074	RAW	3.8	38.8	48.6	12.6	4.3	12980.	5.2	71.2	1.3	5.4	57.1	13769.	2070.	0.0	0.	HVB BIT	LATENT
080	RAW	5.1	38.1	51.0	10.9	4.1	13230.	4.7	74.5	1.3	4.5	58.6	13588.	2110.	0.0	0.	HVB BIT	LATENT
084	RAW	2.8	40.7	49.4	9.9	6.9	13450.	5.4	77.1	1.3	5.4	56.6	13653.	2150.	0.0	0.	HVB BIT	LATENT

AVERAGE COALBED ANALYSES FOR STATE: 54 WEST VIRGINIA

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
COUNTY:	33	HARRISON																
001	RAW	3.2	38.5	51.4	10.1	3.1	13367.	0.0	0.0	0.0	0.0	58.3	14051.	2127.	0.0	0.	HVA BIT	LATENT
033	RAW	3.2	37.8	52.6	9.6	2.5	13544.	5.2	76.9	1.4	6.7	59.2	14229.	2196.	7.3	58.	HVA BIT	LATENT
036	RAW	2.7	39.5	51.7	8.8	3.2	13747.	5.2	76.0	1.4	5.7	57.7	14309.	2104.	7.4	58.	HVA BIT	LATENT
036	WASH	2.6	41.9	50.8	7.2	2.9	14620.	5.3	76.8	1.4	5.7	55.6	14383.	2099.	7.3	57.	HVA BIT	LATENT
955	RAW	3.3	39.0	52.8	8.2	3.0	13768.	0.0	0.0	0.0	0.0	58.5	14161.	2105.	7.3	59.	HVA BIT	LATENT
COUNTY:	39	KANAWHA																
001	RAW	3.2	35.2	54.7	10.1	1.1	13562.	0.0	0.0	0.0	0.0	61.7	14524.	2786.	6.7	43.	HVA BIT	MARGINAL
001	WASH	2.9	35.6	58.3	6.0	1.1	14364.	0.0	0.0	0.0	0.0	62.6	14746.	2781.	7.3	41.	HVA BIT	MARGINAL
036	RAW	4.1	40.9	52.7	6.4	2.0	13795.	5.6	73.4	1.5	11.2	57.0	13916.	2230.	5.0	0.	HVB BIT	LATENT
076	RAW	3.6	38.1	51.9	10.0	1.4	13430.	5.1	74.5	1.4	7.6	58.5	14258.	2680.	5.5	51.	HVA BIT	MARGINAL
084	RAW	3.8	35.3	54.3	10.3	0.9	13390.	5.1	77.8	1.5	7.4	61.3	14307.	2845.	4.2	44.	HVA BIT	MARGINAL
084	WASH	3.4	37.7	54.7	7.6	0.8	13830.	5.2	78.4	1.5	7.2	59.7	14398.	2893.	5.4	43.	HVA BIT	PREMIUM
103	RAW	3.2	35.6	55.2	9.2	0.6	13676.	5.2	76.8	1.4	8.5	61.4	14542.	2909.	4.7	47.	HVA BIT	MARGINAL
103	WASH	3.7	36.6	54.6	8.7	0.7	13726.	5.2	79.2	1.5	7.4	60.4	14447.	2910.	0.0	0.	HVA BIT	MARGINAL
111	RAW	3.1	34.8	54.1	11.0	0.7	13377.	5.0	73.9	1.4	7.8	61.6	14555.	2872.	4.7	43.	HVA BIT	MARGINAL
121	RAW	3.0	35.4	57.2	7.4	0.7	14010.	5.2	79.1	1.5	7.3	62.3	14635.	2862.	5.5	49.	HVA BIT	PREMIUM
121	WASH	3.8	35.1	59.7	5.3	0.6	14484.	0.0	0.0	0.0	0.0	63.4	14671.	2910.	5.5	51.	HVA BIT	PREMIUM
151	RAW	2.5	37.6	56.6	5.8	0.9	14312.	5.4	80.4	1.6	7.2	60.5	14730.	2554.	6.4	44.	HVA BIT	PREMIUM
151	WASH	3.6	39.1	55.8	5.5	1.1	14347.	5.3	81.7	1.5	6.7	59.1	14530.	2590.	0.0	0.	HVA BIT	MARGINAL
167	RAW	2.5	36.6	56.5	7.0	2.1	14182.	5.3	78.2	1.4	6.9	61.5	14633.	2270.	7.3	57.	HVA BIT	LATENT
168	RAW	3.1	37.6	57.5	5.0	0.9	14407.	5.4	80.5	1.6	7.7	60.9	14599.	2512.	7.2	55.	HVA BIT	PREMIUM
168	WASH	3.7	36.7	57.0	6.3	1.2	14264.	5.1	78.6	1.3	5.4	61.4	14546.	2764.	7.4	56.	HVA BIT	MARGINAL
170	RAW	3.0	32.2	62.0	5.2	0.9	14498.	5.2	83.1	1.4	6.4	66.5	14762.	2793.	5.1	63.	HVA BIT	PREMIUM
170	WASH	1.6	34.3	61.2	4.4	0.9	14800.	5.3	83.2	1.5	5.2	64.5	15162.	2550.	0.0	0.	HVA BIT	PREMIUM
176	RAW	1.8	33.8	59.1	7.1	0.7	14376.	5.2	80.1	1.5	5.9	64.1	15160.	2876.	6.7	47.	HVA BIT	PREMIUM
899	RAW	2.8	35.5	53.2	11.3	1.0	13302.	0.0	0.0	0.0	0.0	60.8	14526.	2887.	0.0	0.	HVA BIT	MARGINAL
943	RAW	4.1	34.1	52.3	13.6	0.7	12878.	0.0	0.0	0.0	0.0	61.4	14264.	2910.	4.2	40.	HVA BIT	LATENT
943	WASH	3.9	35.9	54.2	9.9	0.7	13502.	0.0	0.0	0.0	0.0	60.8	14370.	2910.	0.0	0.	HVA BIT	MARGINAL
944	RAW	2.7	35.0	53.9	10.3	0.9	13517.	0.0	0.0	0.0	0.0	60.7	14628.	2877.	6.6	0.	HVA BIT	MARGINAL

AVERAGE COALBED ANALYSES FOR STATE: 54 WEST VIRGINIA

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
958	RAW	3.1	35.7	57.0	7.4	0.7	13872.	0.0	0.0	0.0	0.0	62.0	14473.	2892.	6.0	46.	HVA BIT	PREMIUM
958	WASH	3.0	37.0	58.0	5.0	0.7	14264.	0.0	0.0	0.0	0.0	61.4	14413.	2910.	6.2	40.	HVA BIT	PREMIUM
960	WASH	3.0	31.8	59.9	8.3	1.2	14115.	0.0	0.0	0.0	0.0	66.1	14832.	2910.	7.5	62.	HVA BIT	MARGINAL
961	WASH	4.5	32.2	61.9	6.0	1.0	14522.	0.0	0.0	0.0	0.0	66.4	14643.	2902.	8.5	0.	HVA BIT	PREMIUM
965	RAW	3.7	35.3	53.0	11.8	0.8	13191.	0.0	0.0	0.0	0.0	60.8	14376.	2884.	3.2	44.	HVA BIT	MARGINAL
965	WASH	5.4	35.9	54.7	9.4	0.6	13578.	0.0	0.0	0.0	0.0	61.0	14126.	2910.	4.0	0.	HVA BIT	MARGINAL
976	WASH	4.7	33.9	60.2	5.9	1.0	14450.	0.0	0.0	0.0	0.0	64.5	14529.	2910.	7.5	57.	HVA BIT	PREMIUM
COUNTY:	41	LEWIS																
001	RAW	3.5	40.1	50.3	9.6	3.4	13423.	0.0	0.0	0.0	0.0	56.8	13922.	2113.	6.4	0.	HVB BIT	LATENT
033	RAW	3.3	39.0	49.8	11.2	3.6	13196.	5.1	72.0	1.0	6.0	57.3	13951.	2140.	7.3	59.	HVB BIT	LATENT
033	WASH	2.8	40.6	51.5	7.8	3.5	13868.	0.0	0.0	0.0	0.0	56.9	14152.	2083.	6.0	0.	HVA BIT	LATENT
036	RAW	3.8	40.3	50.4	9.3	3.5	13465.	0.0	0.0	0.0	0.0	56.6	13867.	2122.	7.0	56.	HVB BIT	LATENT
076	RAW	3.7	36.9	48.9	14.2	2.6	12880.	0.0	0.0	0.0	0.0	58.3	14177.	0.	0.0	0.	HVA BIT	LATENT
955	RAW	3.7	39.9	48.8	11.3	3.5	13160.	0.0	0.0	0.0	0.0	56.2	13878.	2140.	7.5	56.	HVB BIT	LATENT
COUNTY:	45	LOGAN																
001	RAW	3.2	35.4	56.5	8.1	1.2	13886.	0.0	0.0	0.0	0.0	62.2	14533.	2686.	5.9	55.	HVA BIT	MARGINAL
001	WASH	3.1	36.7	57.0	6.3	1.0	14192.	5.1	79.4	1.4	5.8	61.3	14576.	2750.	7.1	46.	HVA BIT	PREMIUM
002	RAW	3.1	33.7	57.5	8.9	0.9	13900.	0.0	0.0	0.0	0.0	63.8	14736.	2807.	0.0	0.	HVA BIT	MARGINAL
002	WASH	2.4	34.4	58.6	7.0	0.8	14236.	0.0	0.0	0.0	0.0	63.6	14886.	2861.	8.0	54.	HVA BIT	PREMIUM
084	RAW	3.9	36.3	56.2	7.5	0.7	13881.	5.3	78.1	1.5	7.6	61.3	14373.	2905.	4.8	43.	HVA BIT	PREMIUM
084	WASH	3.9	36.3	55.2	8.4	0.7	13690.	5.1	77.6	1.5	7.5	60.9	14315.	2906.	5.8	41.	HVA BIT	MARGINAL
103	RAW	2.9	31.2	53.2	15.6	0.6	12655.	4.7	71.5	1.4	6.3	64.1	14601.	2910.	5.2	45.	HVA BIT	LATENT
103	WASH	6.1	36.1	55.0	9.0	0.8	13560.	0.0	0.0	0.0	0.0	61.0	13914.	2910.	3.0	47.	HVB BIT	MARGINAL
121	RAW	3.9	36.6	53.7	7.7	1.4	13783.	4.4	70.3	1.3	7.8	58.9	14198.	2595.	3.8	46.	HVA BIT	MARGINAL
135	RAW	2.7	35.7	57.3	7.1	0.7	14119.	5.4	79.1	1.5	6.7	62.1	14736.	2753.	6.2	48.	HVA BIT	PREMIUM
135	WASH	3.3	36.3	57.3	6.4	0.7	14184.	5.3	80.5	1.6	6.7	61.7	14600.	2832.	6.8	49.	HVA BIT	PREMIUM
136	WASH	3.2	35.9	59.6	4.5	0.6	14724.	5.2	83.4	2.1	4.6	62.8	14884.	2828.	7.0	53.	HVA BIT	PREMIUM
151	RAW	2.6	35.6	56.8	7.6	1.2	14037.	5.2	78.9	1.5	5.9	62.2	14696.	2682.	7.1	51.	HVA BIT	MARGINAL

AVERAGE COALBED ANALYSES FOR STATE: 54 WEST VIRGINIA

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
COUNTY:		45	LOGAN (CONTINUED)															
151	WASH	2.8	36.8	56.5	6.7	1.1	14195.	5.2	80.4	1.5	6.3	61.2	14701.	2748.	7.2	46.	HVA BIT	MARGINAL
154	RAW	2.6	35.0	59.2	5.9	0.7	14371.	5.3	81.3	1.5	6.1	63.3	14821.	2675.	7.7	48.	HVA BIT	PREMIUM
154	WASH	3.0	37.0	57.3	5.7	0.7	14299.	0.0	0.0	0.0	0.0	61.2	14648.	2727.	7.2	0.	HVA BIT	PREMIUM
157	RAW	3.3	39.1	53.0	7.9	1.7	13809.	5.4	77.0	1.5	6.9	58.3	14322.	2357.	5.6	45.	HVA BIT	MARGINAL
157	WASH	4.7	35.8	59.5	4.7	0.7	14526.	0.0	0.0	0.0	0.0	62.9	14471.	2730.	7.0	42.	HVA BIT	PREMIUM
168	RAW	2.6	33.8	59.8	6.5	0.7	14294.	5.2	79.6	1.5	6.3	64.4	14834.	2795.	6.7	59.	HVA BIT	PREMIUM
168	WASH	2.2	33.0	62.0	5.1	0.6	14610.	0.0	0.0	0.0	0.0	65.6	15010.	2870.	8.0	59.	HVA BIT	PREMIUM
170	RAW	3.1	33.8	58.7	7.6	0.7	14054.	0.0	0.0	0.0	0.0	64.0	14688.	2844.	5.7	49.	HVA BIT	PREMIUM
170	WASH	2.0	35.1	60.6	4.4	0.6	14660.	0.0	0.0	0.0	0.0	63.7	14995.	2910.	8.0	56.	HVA BIT	PREMIUM
176	RAW	2.9	34.4	58.6	7.0	0.8	14133.	5.2	80.8	1.5	6.1	63.5	14703.	2769.	6.6	53.	HVA BIT	PREMIUM
176	WASH	4.2	35.4	59.2	5.4	0.7	14404.	5.4	81.1	1.7	7.1	63.1	14517.	2869.	7.4	51.	HVA BIT	PREMIUM
873	WASH	5.4	32.9	62.7	4.4	0.6	14570.	0.0	0.0	0.0	0.0	66.0	14355.	2770.	8.0	0.	HVA BIT	PREMIUM
913	RAW	2.6	36.1	57.2	6.7	1.1	14176.	0.0	0.0	0.0	0.0	61.9	14709.	2635.	7.5	0.	HVA BIT	MARGINAL
913	WASH	2.6	36.8	58.0	5.2	0.8	14437.	0.0	0.0	0.0	0.0	61.6	14758.	2796.	7.9	47.	HVA BIT	PREMIUM
916	RAW	2.7	38.1	57.3	4.6	0.7	14557.	0.0	0.0	0.0	0.0	60.5	14785.	2887.	0.0	0.	HVA BIT	PREMIUM
916	WASH	3.1	36.9	57.5	5.7	0.9	14311.	0.0	0.0	0.0	0.0	61.4	14619.	2877.	7.0	47.	HVA BIT	PREMIUM
930	RAW	2.2	32.8	57.9	9.3	1.0	13838.	0.0	0.0	0.0	0.0	64.6	14867.	2657.	0.0	0.	HVA BIT	MARGINAL
947	RAW	3.2	36.5	57.0	6.5	0.6	14082.	0.0	0.0	0.0	0.0	61.4	14536.	2858.	5.0	46.	HVA BIT	PREMIUM
956	RAW	2.4	34.7	57.7	7.7	1.3	14115.	0.0	0.0	0.0	0.0	63.2	14806.	2686.	0.0	0.	HVA BIT	MARGINAL
956	WASH	2.6	36.1	57.2	6.8	1.0	14195.	0.0	0.0	0.0	0.0	61.9	14751.	2861.	7.6	48.	HVA BIT	PREMIUM
957	RAW	2.4	33.6	59.5	6.9	0.6	14227.	0.0	0.0	0.0	0.0	64.5	14886.	2887.	7.5	54.	HVA BIT	PREMIUM
960	RAW	3.2	33.7	61.9	4.4	0.6	14555.	0.0	0.0	0.0	0.0	65.1	14689.	2865.	7.0	51.	HVA BIT	PREMIUM
961	WASH	4.6	33.6	62.1	4.4	0.6	14745.	0.0	0.0	0.0	0.0	65.3	14660.	2847.	7.5	53.	HVA BIT	PREMIUM
966	RAW	2.6	35.4	56.7	7.8	1.2	13978.	5.3	80.1	1.5	6.7	62.2	14671.	2704.	7.2	50.	HVA BIT	MARGINAL
974	RAW	2.9	35.2	55.6	9.2	1.1	13662.	0.0	0.0	0.0	0.0	61.9	14547.	2440.	0.0	0.	HVA BIT	MARGINAL
974	WASH	4.3	36.7	55.8	7.5	1.0	13903.	0.0	0.0	0.0	0.0	60.9	14292.	2631.	5.0	0.	HVA BIT	PREMIUM
978	WASH	3.0	35.6	59.6	4.9	0.8	14580.	0.0	0.0	0.0	0.0	63.0	14815.	2910.	7.0	52.	HVA BIT	PREMIUM
985	WASH	4.1	36.4	56.3	7.4	0.9	14085.	5.2	79.4	1.5	5.7	61.5	14506.	2910.	7.5	42.	HVA BIT	PREMIUM

AVERAGE COALBED ANALYSES FOR STATE: 54 WEST VIRGINIA

BED	TYPE ANAL	PROXIMATE MOI RFC	PROXIMATE DRY VOL ATT	PROXIMATE DRY FIXD CARB	PROXIMATE DRY ASH	PROXIMATE DRY SUL	PROXIMATE DRY BTU	ULTIMATE DRY HYD	ULTIMATE DRY CAR	ULTIMATE DRY NIT	ULTIMATE DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
COUNTY:	47	MCDOWELL																
001	RAW	3.3	20.5	72.7	6.8	0.8	14611.	0.0	0.0	0.0	0.0	78.7	15103.	2609.	8.4	0.	LV BIT	PREMIUM
001	WASH	4.1	18.7	73.7	7.6	0.7	14486.	0.0	0.0	0.0	0.0	80.5	14961.	2692.	7.5	0.	LV BIT	PREMIUM
176	RAW	2.9	30.8	63.4	5.9	1.2	14471.	4.7	81.5	1.6	6.9	68.0	14805.	2490.	0.0	0.	HVA BIT	MARGINAL
195	RAW	2.3	31.6	58.7	9.7	1.2	13900.	0.0	0.0	0.0	0.0	65.9	14956.	2760.	6.5	65.	HVA BIT	MARGINAL
216	WASH	3.3	27.7	60.4	11.9	0.9	13650.	4.5	77.5	1.5	3.7	69.5	14941.	2910.	0.0	0.	HV BIT	MARGINAL
252	RAW	2.6	26.9	67.2	5.8	1.0	14638.	5.0	85.4	1.7	3.5	72.0	15056.	2471.	8.5	84.	MV BIT	PREMIUM
252	WASH	3.1	27.7	69.3	3.0	0.8	15120.	4.9	87.8	1.7	3.1	71.9	15021.	2551.	0.0	0.	MV BIT	PREMIUM
266	RAW	1.8	23.8	72.2	4.0	0.6	15077.	4.8	84.6	1.5	3.7	75.7	15355.	2323.	0.0	0.	MV BIT	PREMIUM
266	WASH	2.9	24.4	69.1	6.4	0.7	14663.	0.0	0.0	0.0	0.0	74.5	15172.	2680.	8.6	91.	MV BIT	PREMIUM
285	RAW	2.5	20.3	73.9	5.8	0.7	14776.	4.5	85.1	1.4	2.7	79.1	15245.	2597.	8.8	104.	LV BIT	PREMIUM
285	WASH	3.8	18.7	77.0	4.3	0.7	15056.	0.0	0.0	0.0	0.0	81.0	15080.	2533.	0.0	100.	LV BIT	PREMIUM
293	RAW	2.7	18.5	74.3	7.2	0.6	14546.	4.4	83.5	1.4	2.6	80.8	15232.	2771.	9.0	0.	LV BIT	PREMIUM
293	WASH	3.7	18.0	74.2	7.8	0.6	14450.	0.0	0.0	0.0	0.0	81.3	15056.	2829.	0.0	95.	LV BIT	PREMIUM
311	RAW	2.3	17.6	72.9	9.5	0.7	14157.	4.2	81.9	1.4	2.5	81.5	15274.	2614.	6.5	0.	LV BIT	MARGINAL
311	WASH	3.0	17.9	72.6	9.5	0.6	14166.	0.0	0.0	0.0	0.0	81.1	15178.	2641.	0.0	0.	LV BIT	MARGINAL
318	RAW	2.2	18.7	74.3	7.0	0.8	14613.	4.4	84.1	1.3	2.2	80.6	15309.	2529.	9.0	103.	LV BIT	PREMIUM
318	WASH	3.7	19.4	74.0	6.6	0.5	14707.	4.4	84.9	1.4	2.5	79.8	15149.	2542.	0.0	97.	LV BIT	PREMIUM
334	RAW	2.8	19.2	73.9	6.9	0.8	14668.	4.4	83.5	1.3	2.5	80.1	15254.	2627.	0.0	0.	LV BIT	PREMIUM
341	RAW	1.9	21.5	73.4	5.2	0.6	14915.	4.6	85.3	1.5	2.9	77.9	15401.	2505.	0.0	0.	MV BIT	PREMIUM
342	RAW	2.2	17.4	75.3	7.2	0.6	14549.	4.3	85.1	1.2	2.8	81.9	15320.	2411.	8.2	0.	LV BIT	PREMIUM
342	WASH	3.1	19.8	73.4	6.9	0.6	14564.	4.4	85.6	1.3	2.8	79.4	15126.	2484.	8.5	0.	LV BIT	PREMIUM
344	RAW	3.0	18.4	75.7	5.9	0.6	14772.	4.4	85.9	1.2	2.7	81.0	15177.	2401.	5.7	103.	LV BIT	PREMIUM
344	WASH	4.0	18.1	75.0	6.9	0.6	14610.	4.4	86.2	1.2	2.6	81.2	15029.	2499.	7.7	97.	LV BIT	PREMIUM
894	RAW	2.0	23.0	70.7	6.3	0.5	14620.	4.6	85.0	1.2	3.4	76.0	15281.	2320.	0.0	0.	MV BIT	PREMIUM
894	WASH	4.1	22.4	69.4	8.2	0.4	14265.	0.0	0.0	0.0	0.0	76.3	14896.	2165.	0.0	0.	MV BIT	MARGINAL
914	RAW	4.5	19.0	73.7	7.3	0.7	14555.	0.0	0.0	0.0	0.0	80.2	14936.	2780.	8.5	0.	LV BIT	PREMIUM
914	WASH	4.1	18.9	74.7	6.4	0.6	14700.	0.0	0.0	0.0	0.0	80.4	15026.	2847.	0.0	92.	LV BIT	PREMIUM
917	RAW	3.0	24.6	69.0	6.4	0.8	14635.	0.0	0.0	0.0	0.0	74.3	15099.	2407.	8.5	87.	MV BIT	PREMIUM
917	WASH	2.1	26.2	71.1	2.7	0.7	15280.	0.0	0.0	0.0	0.0	73.4	15304.	2180.	0.0	0.	MV BIT	PREMIUM
922	RAW	2.7	24.7	65.2	10.1	0.9	13973.	0.0	0.0	0.0	0.0	73.4	15075.	2660.	8.5	88.	MV BIT	MARGINAL

AVERAGE COALBED ANALYSES FOR STATE: 54 WEST VIRGINIA

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
931	RAW	2.1	27.4	66.3	6.3	2.2	14580.	0.0	0.0	0.0	0.0	71.7	14995.	2150.	8.5	88.	HV BIT	LATENT
932	RAW	2.8	29.9	64.0	6.2	1.0	14510.	0.0	0.0	0.0	0.0	68.8	14925.	2290.	9.0	68.	HVA BIT	PREMIUM
990	RAW	3.2	17.7	75.8	6.5	0.7	14654.	4.3	85.7	1.2	2.8	81.7	15119.	2424.	8.5	102.	LV BIT	PREMIUM
990	WASH	3.6	17.3	75.1	7.6	0.6	14509.	0.0	0.0	0.0	0.0	82.0	15093.	2524.	5.0	92.	LV BIT	PREMIUM
991	RAW	2.9	19.2	75.8	5.0	0.6	14850.	0.0	0.0	0.0	0.0	80.3	15135.	0.	0.0	0.	LV BIT	PREMIUM
991	WASH	2.5	17.5	76.0	6.5	0.6	14673.	0.0	0.0	0.0	0.0	81.9	15276.	2837.	6.3	91.	LV BIT	PREMIUM
994	RAW	3.1	18.3	75.4	6.2	0.7	14644.	0.0	0.0	0.0	0.0	81.1	15083.	2350.	0.0	0.	LV BIT	PREMIUM
994	WASH	2.7	17.1	76.1	6.8	0.6	14592.	0.0	0.0	0.0	0.0	82.3	15199.	2647.	6.0	91.	LV BIT	PREMIUM
996	RAW	1.9	19.7	73.4	7.0	0.7	14685.	0.0	0.0	0.0	0.0	79.5	15451.	2800.	0.0	0.	LV BIT	PREMIUM
996	WASH	4.7	19.6	71.3	9.1	0.7	14245.	0.0	0.0	0.0	0.0	79.3	14881.	2755.	0.0	0.	LV BIT	MARGINAL
997	RAW	2.1	21.6	74.8	3.7	0.6	15160.	0.0	0.0	0.0	0.0	78.0	15367.	2442.	0.0	0.	LV BIT	PREMIUM
997	WASH	4.3	21.0	72.3	6.7	0.6	14660.	0.0	0.0	0.0	0.0	78.1	14992.	2697.	9.0	97.	LV BIT	PREMIUM
998	WASH	4.7	18.6	76.9	4.5	0.6	15015.	0.0	0.0	0.0	0.0	81.1	14914.	2682.	9.0	99.	LV BIT	PREMIUM
999	WASH	8.7	19.1	74.0	6.9	0.7	14740.	0.0	0.0	0.0	0.0	80.2	14352.	2580.	8.5	96.	LV BIT	PREMIUM
COUNTY:	49	MARION																
029	RAW	2.0	39.3	48.5	12.3	4.3	13173.	0.0	0.0	0.0	0.0	56.7	14217.	2167.	7.7	60.	HVA BIT	LATENT
036	RAW	2.3	37.7	54.3	8.0	1.8	13938.	5.3	78.2	1.6	6.0	59.8	14613.	2246.	8.0	57.	HVA BIT	MARGINAL
036	WASH	2.3	39.8	52.9	7.4	2.3	13996.	5.3	78.1	1.5	6.2	57.9	14501.	2170.	7.6	57.	HVA BIT	LATENT
COUNTY:	51	MARSHALL																
036	RAW	3.0	42.0	49.0	9.0	4.5	13489.	5.2	74.3	1.3	6.6	55.1	13845.	2081.	7.4	56.	HVB BIT	LATENT
036	WASH	3.2	41.6	48.4	10.0	4.7	13410.	0.0	0.0	0.0	0.0	55.1	13855.	2210.	0.0	0.	HVB BIT	LATENT
COUNTY:	53	MASON																
036	RAW	6.6	42.0	44.0	14.0	3.2	12277.	4.9	67.5	1.2	9.1	52.3	12938.	2436.	4.4	46.	HVC BIT	LATENT
036	WASH	6.2	44.8	44.8	10.4	3.1	12845.	0.0	0.0	0.0	0.0	50.9	13076.	2462.	0.0	0.	HVB BIT	LATENT
COUNTY:	55	MERCER																
001	RAW	1.9	17.5	75.2	7.3	0.6	14520.	0.0	0.0	0.0	0.0	81.8	15352.	0.	0.0	0.	LV BIT	PREMIUM
001	WASH	2.8	18.1	74.1	7.9	0.6	14417.	0.0	0.0	0.0	0.0	81.1	15198.	2780.	0.0	0.	LV BIT	PREMIUM
318	RAW	3.7	20.3	75.3	4.4	0.6	15077.	4.8	86.2	1.3	2.4	79.2	15129.	2587.	8.8	0.	LV BIT	PREMIUM
318	WASH	7.4	19.8	75.6	4.6	0.6	15007.	0.0	0.0	0.0	0.0	79.8	14500.	2620.	0.0	0.	LV BIT	PREMIUM
334	RAW	3.1	19.1	75.7	5.1	0.7	14956.	4.7	84.4	1.2	2.2	80.4	15219.	2568.	8.4	100.	LV BIT	PREMIUM

AVERAGE COALBED ANALYSES FOR STATE: 54 WEST VIRGINIA

BED	TYPE ANAL	PROXIMATE MOI PEC	PROXIMATE DRY VOL MATT	PROXIMATE DRY FIXD CARB	PROXIMATE DRY ASH	DRY SUL	DRY BTU	ULTIMATE DRY HYD	ULTIMATE DRY CAR	ULTIMATE DRY NIT	ULTIMATE DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
334	WASH	3.9	19.0	74.5	6.5	0.6	14724.	0.0	0.0	0.0	0.0	80.4	15096.	2702.	0.0	0.	LV BIT	PREMIUM
344	RAW	2.8	17.7	76.5	5.7	0.6	14828.	4.4	86.7	1.2	2.5	81.8	15248.	2659.	8.6	100.	LV BIT	PREMIUM
344	WASH	4.0	17.3	75.7	7.0	0.6	14619.	0.0	0.0	0.0	0.0	82.1	15053.	2782.	7.2	94.	LV BIT	PREMIUM
991	RAW	2.9	17.7	78.6	3.7	0.6	15135.	0.0	0.0	0.0	0.0	82.0	15215.	2675.	0.0	0.	LV BIT	PREMIUM
991	WASH	4.1	17.9	76.0	6.1	0.5	14774.	0.0	0.0	0.0	0.0	81.5	15061.	2754.	0.0	0.	LV BIT	PREMIUM
	COUNTY:	57	MINERAL															
036	RAW	3.1	19.2	72.5	8.3	0.7	14050.	0.0	0.0	0.0	0.0	79.9	14812.	2910.	6.0	99.	LV BIT	MARGINAL
055	RAW	1.7	16.9	68.9	14.2	3.0	13284.	0.0	0.0	0.0	0.0	82.4	14923.	2499.	9.0	97.	LV BIT	LATENT
063	RAW	2.0	15.6	72.3	12.1	1.9	13662.	4.2	80.5	1.5	1.9	83.8	15071.	2497.	8.5	0.	LV BIT	LATENT
063	WASH	3.7	16.2	67.4	16.4	2.3	12880.	0.0	0.0	0.0	0.0	82.8	14606.	2755.	0.0	0.	LV BIT	LATENT
070	RAW	3.1	14.9	73.0	12.1	1.6	13687.	0.0	0.0	0.0	0.0	84.6	14946.	2430.	0.0	0.	LV BIT	LATENT
071	RAW	1.0	15.2	69.7	15.1	3.8	13110.	0.0	0.0	0.0	0.0	84.7	14790.	2145.	0.0	0.	LV BIT	LATENT
344	RAW	1.7	15.7	68.5	15.9	2.8	12935.	0.0	0.0	0.0	0.0	83.7	14861.	2375.	0.0	0.	LV BIT	LATENT
	COUNTY:	59	MINGO															
001	RAW	3.5	33.7	58.8	7.5	0.7	14157.	0.0	0.0	0.0	0.0	64.1	14715.	2857.	7.7	0.	HVA BIT	PREMIUM
001	WASH	2.8	35.5	57.7	6.7	0.8	14209.	0.0	0.0	0.0	0.0	62.4	14753.	2857.	7.0	0.	HVA BIT	PREMIUM
111	RAW	3.6	37.9	54.8	7.3	0.7	13928.	5.6	77.6	1.4	7.8	59.6	14443.	2872.	5.0	0.	HVA BIT	PREMIUM
111	WASH	4.7	38.0	53.1	9.0	0.6	13670.	0.0	0.0	0.0	0.0	58.8	14268.	2870.	5.0	41.	HVA BIT	MARGINAL
117	RAW	3.1	37.2	54.2	8.6	0.7	13700.	5.6	77.2	1.4	6.5	59.9	14492.	2860.	5.0	0.	HVA BIT	MARGINAL
121	RAW	3.5	36.3	54.3	7.4	0.7	13918.	5.4	79.8	1.6	7.1	59.1	14464.	2859.	4.6	53.	HVA BIT	PREMIUM
121	WASH	4.3	37.2	55.3	7.5	0.6	13898.	0.0	0.0	0.0	0.0	60.3	14338.	2897.	6.0	43.	HVA BIT	PREMIUM
151	RAW	2.6	36.4	55.8	7.8	1.2	13969.	5.2	78.8	1.5	6.1	61.2	14668.	2754.	6.8	46.	HVA BIT	MARGINAL
151	WASH	3.0	37.5	55.0	7.6	1.2	13999.	5.2	80.1	1.5	6.1	60.1	14563.	2758.	6.4	46.	HVA BIT	MARGINAL
154	RAW	2.3	36.7	56.3	5.1	0.9	14480.	5.3	81.0	1.5	6.0	61.8	14830.	2720.	7.7	0.	HVA BIT	PREMIUM
154	WASH	3.4	36.7	58.3	5.0	0.7	14482.	5.2	82.7	1.5	5.3	61.8	14668.	2785.	7.6	51.	HVA BIT	PREMIUM
157	RAW	2.8	36.3	56.1	5.6	0.6	14396.	5.4	81.4	1.5	6.5	62.0	14769.	2866.	6.9	45.	HVA BIT	PREMIUM
157	WASH	3.3	37.2	56.2	4.6	0.7	14555.	5.4	82.4	1.5	6.3	61.4	14704.	2859.	7.1	47.	HVA BIT	PREMIUM
168	RAW	3.1	35.2	56.2	8.6	1.1	13787.	5.2	78.9	1.5	6.6	62.2	14522.	2865.	6.0	52.	HVA BIT	MARGINAL
168	WASH	3.6	39.9	54.5	5.7	1.0	14223.	5.4	79.3	1.5	7.4	58.2	14412.	2727.	0.0	0.	HVA BIT	PREMIUM
170	RAW	3.7	33.2	60.7	6.1	0.6	14310.	0.0	0.0	0.0	0.0	65.1	14649.	2810.	7.2	56.	HVA BIT	PREMIUM
170	WASH	2.7	34.7	61.4	3.9	0.6	14801.	5.3	82.8	1.5	6.0	64.2	14930.	2867.	7.5	54.	HVA BIT	PREMIUM
176	RAW	3.2	30.7	62.7	6.6	1.2	14340.	5.0	81.7	1.6	4.7	67.8	14751.	2477.	7.7	67.	HVA BIT	MARGINAL

AVERAGE COALBED ANALYSES FOR STATE: 54 WEST VIRGINIA

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
252	RAW	3.0	25.8	68.1	6.2	2.1	14625.	4.9	83.8	1.7	3.1	73.5	14891.	2155.	8.5	0.	MV BIT	LATENT
895	RAW	4.0	33.3	59.1	7.6	0.7	14080.	0.0	0.0	0.0	0.0	64.5	14578.	2855.	7.2	54.	HVA BIT	PREMIUM
895	WASH	4.3	36.2	58.1	5.7	0.7	14380.	0.0	0.0	0.0	0.0	62.0	14540.	2910.	0.0	0.	HVA BIT	PREMIUM
913	RAW	2.6	34.4	58.9	6.7	0.7	14274.	5.1	81.0	1.4	6.7	63.6	14865.	2827.	7.4	61.	HVA BIT	PREMIUM
913	WASH	2.7	35.9	58.3	5.9	0.8	14370.	0.0	0.0	0.0	0.0	62.4	14792.	2843.	7.2	52.	HVA BIT	PREMIUM
939	RAW	4.9	33.6	61.3	5.2	0.6	14285.	0.0	0.0	0.0	0.0	65.0	14258.	2815.	7.0	50.	HVA BIT	PREMIUM
COUNTY:	61	MONONGALIA																
001	RAW	3.2	33.5	54.8	11.7	2.6	13289.	0.0	0.0	0.0	0.0	63.3	14301.	2365.	8.1	61.	HVA BIT	LATENT
023	RAW	3.2	34.6	49.6	15.8	1.3	12460.	0.0	0.0	0.0	0.0	60.1	14254.	2800.	8.0	0.	HVA BIT	LATENT
029	RAW	2.4	35.5	52.1	12.4	2.6	13193.	4.9	72.6	1.5	5.4	60.7	14449.	2386.	8.1	59.	HVA BIT	LATENT
029	WASH	2.7	37.1	51.9	11.0	2.6	13449.	5.1	74.4	1.5	5.4	59.4	14442.	2458.	7.7	59.	HVA BIT	LATENT
033	RAW	2.9	33.3	55.1	11.6	2.0	13309.	4.9	74.5	1.5	5.6	63.5	14441.	2560.	8.0	62.	HVA BIT	LATENT
036	RAW	2.3	35.6	55.0	9.4	2.8	13799.	5.1	76.5	1.5	4.8	61.8	14554.	2272.	8.0	65.	HVA BIT	LATENT
036	WASH	2.1	37.4	54.3	8.3	2.4	13991.	5.2	77.0	1.6	5.6	60.1	14692.	2408.	7.5	57.	HVA BIT	LATENT
063	RAW	1.8	32.3	58.6	9.1	2.4	13860.	0.0	0.0	0.0	0.0	65.5	14723.	2060.	6.5	67.	HVA BIT	LATENT
071	RAW	2.4	30.4	60.1	9.5	1.3	13897.	4.9	78.8	1.4	5.2	67.3	14903.	2745.	8.5	72.	HVA BIT	MARGINAL
937	RAW	2.7	33.3	54.0	12.7	2.5	13160.	0.0	0.0	0.0	0.0	63.1	14405.	2350.	8.0	0.	HVA BIT	LATENT
949	RAW	2.5	35.5	53.8	10.7	2.5	13542.	0.0	0.0	0.0	0.0	61.3	14529.	2519.	0.0	0.	HVA BIT	LATENT
949	WASH	2.3	39.0	52.0	9.0	3.3	13850.	0.0	0.0	0.0	0.0	58.3	14492.	2210.	7.2	63.	HVA BIT	LATENT
955	RAW	2.8	34.6	54.5	10.9	2.4	13539.	0.0	0.0	0.0	0.0	62.3	14530.	2292.	7.7	61.	HVA BIT	LATENT
955	WASH	2.1	36.6	54.8	8.6	2.5	13944.	5.3	76.8	1.5	5.1	60.9	14674.	2503.	0.0	0.	HVA BIT	LATENT
COUNTY:	67	NICHOLAS																
001	RAW	4.1	34.3	57.9	7.8	0.8	13850.	0.0	0.0	0.0	0.0	63.4	14334.	2847.	5.2	50.	HVA BIT	PREMIUM
001	WASH	4.0	36.0	55.9	8.1	0.9	13931.	5.2	78.5	1.6	5.8	61.4	14484.	2696.	7.3	47.	HVA BIT	MARGINAL
076	RAW	6.2	29.7	57.6	12.7	0.6	12420.	4.3	71.9	1.4	9.1	66.9	13291.	2910.	1.5	50.	HVB BIT	LATENT
080	RAW	2.3	35.8	60.9	3.3	0.8	14680.	5.4	82.8	1.7	6.0	63.3	14754.	2700.	7.0	0.	HVA BIT	PREMIUM
084	RAW	2.9	35.0	59.1	5.8	0.8	14244.	5.1	77.6	1.5	6.2	63.3	14633.	2776.	6.8	49.	HVA BIT	PREMIUM
084	WASH	3.4	36.2	57.8	6.0	0.9	14262.	5.2	81.5	1.7	6.3	62.0	14591.	2749.	6.6	46.	HVA BIT	PREMIUM
111	RAW	3.5	36.0	54.5	9.5	0.8	13652.	5.5	78.8	1.5	6.1	60.9	14505.	2910.	6.0	44.	HVA BIT	MARGINAL
121	RAW	2.8	34.7	55.7	9.6	0.8	13635.	5.0	76.9	1.5	6.1	62.3	14634.	2910.	5.7	46.	HVA BIT	MARGINAL

AVERAGE COALBED ANALYSES FOR STATE: 54 WEST VIRGINIA

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
167	RAW	3.2	33.6	56.8	7.6	1.0	14065.	5.2	76.9	1.6	5.6	64.3	14649.	2569.	8.3	53.	HVA BIT	PREMIUM
167	WASH	3.9	34.9	59.5	5.6	0.8	14402.	0.0	0.0	0.0	0.0	63.5	14573.	2563.	0.0	0.	HVA BIT	PREMIUM
176	RAW	3.7	32.9	60.1	7.0	0.7	14190.	5.1	79.6	1.6	5.6	65.2	14636.	2895.	8.1	55.	HVA BIT	PREMIUM
176	WASH	4.6	33.6	59.7	6.6	0.6	14187.	5.1	80.8	1.6	5.9	64.5	14454.	2868.	8.0	52.	HVA BIT	PREMIUM
179	RAW	2.7	37.1	59.5	3.4	0.7	14660.	5.8	83.0	1.7	5.4	61.9	14901.	2820.	8.0	0.	HVA BIT	PREMIUM
216	RAW	3.9	36.1	56.8	7.1	2.3	14290.	5.2	78.8	1.8	4.8	62.0	14515.	2280.	8.5	66.	HVA BIT	LATENT
285	RAW	3.5	28.6	67.2	4.2	0.8	14815.	5.1	84.5	1.7	4.4	70.5	14853.	2605.	8.0	76.	MV BIT	PREMIUM
285	WASH	3.8	29.5	66.1	4.4	0.7	14771.	5.1	85.0	1.7	4.8	69.6	14809.	2683.	8.3	66.	MV BIT	PREMIUM
799	RAW	4.4	34.3	53.7	12.0	0.9	13290.	0.0	0.0	0.0	0.0	61.9	14375.	2910.	5.5	46.	HVA BIT	MARGINAL
COUNTY:		69	OHIO															
036	RAW	3.3	40.1	50.4	9.4	3.9	13390.	5.1	73.9	1.3	7.1	56.9	13834.	2059.	7.2	0.	HVB BIT	LATENT
036	WASH	3.3	41.9	50.5	7.7	3.6	13728.	5.2	74.5	1.3	6.1	55.6	13948.	2090.	7.0	57.	HVB BIT	LATENT
COUNTY:		75	POCAHONTAS															
285	RAW	2.8	30.3	62.9	6.8	0.7	14496.	0.0	0.0	0.0	0.0	68.0	15076.	2891.	6.2	74.	HVA BIT	PREMIUM
COUNTY:		77	PRESTON															
001	RAW	3.3	27.7	59.5	12.8	2.0	13374.	0.0	0.0	0.0	0.0	69.6	14643.	2539.	9.0	0.	MV BIT	LATENT
036	RAW	5.7	32.4	58.9	8.7	1.6	13720.	5.0	77.1	1.6	6.2	65.3	13974.	2392.	0.0	0.	HVB BIT	MARGINAL
063	RAW	2.7	29.8	60.4	9.8	2.0	13849.	4.9	80.0	1.7	4.0	68.1	14740.	2296.	7.4	81.	HVA BIT	LATENT
070	RAW	2.9	28.2	62.1	9.7	2.7	13943.	0.0	0.0	0.0	0.0	70.1	14695.	2160.	9.0	89.	MV BIT	LATENT
071	RAW	2.9	29.0	59.2	11.8	2.1	13535.	4.7	74.8	1.4	3.9	68.4	14695.	2547.	8.1	78.	HVA BIT	LATENT
071	WASH	4.1	29.3	57.7	12.9	2.5	13401.	4.8	77.0	1.4	3.6	67.7	14489.	2475.	8.5	78.	HVA BIT	LATENT
076	RAW	3.0	29.9	53.2	16.8	2.4	12610.	4.5	71.6	1.3	4.5	65.7	14347.	2803.	7.0	66.	HVA BIT	LATENT
080	RAW	3.3	24.9	65.0	10.1	2.8	13977.	4.6	83.9	1.4	3.7	73.8	14718.	2330.	8.5	90.	MV BIT	LATENT
084	RAW	3.0	23.6	65.9	10.5	2.0	13879.	4.5	76.0	1.5	2.7	75.0	14839.	2579.	7.1	91.	MV BIT	LATENT
950	RAW	2.8	29.5	59.3	11.2	2.4	13650.	0.0	0.0	0.0	0.0	68.1	14696.	2273.	7.8	81.	HVA BIT	LATENT

AVERAGE COALBED ANALYSES FOR STATE: 54 WEST VIRGINIA

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
	COUNTY:	79	PUTNAM															
036	RAW	3.5	41.1	50.3	8.6	2.6	13421.	5.3	76.2	1.4	7.8	55.9	13876.	2160.	0.0	0.	HVB BIT	LATENT
	COUNTY:	81	RALEIGH															
001	RAW	4.5	22.3	69.3	8.4	0.9	14091.	4.2	82.7	1.3	2.9	76.4	14624.	2648.	7.7	73.	MV BIT	MARGINAL
001	WASH	2.8	28.5	65.0	6.5	0.7	14423.	0.0	0.0	0.0	0.0	70.0	14946.	2855.	6.5	0.	MV BIT	PREMIUM
084	RAW	2.3	34.0	56.9	9.2	0.7	13807.	0.0	0.0	0.0	0.0	63.3	14839.	2910.	7.0	46.	HVA BIT	MARGINAL
121	RAW	2.5	32.3	61.6	6.0	0.7	14513.	5.0	84.7	1.6	4.3	66.1	15015.	2801.	0.0	0.	HVA BIT	PREMIUM
121	WASH	2.9	33.9	59.3	6.8	0.6	14337.	0.0	0.0	0.0	0.0	64.2	14901.	2897.	0.0	0.	HVA BIT	PREMIUM
137	RAW	1.7	34.4	58.7	6.9	1.2	14405.	5.3	81.5	1.6	4.7	63.6	15130.	2375.	0.0	0.	HVA BIT	MARGINAL
151	RAW	2.0	34.8	58.6	6.5	1.0	14396.	0.0	0.0	0.0	0.0	63.3	15017.	2606.	7.5	62.	HVA BIT	PREMIUM
168	RAW	3.1	30.9	61.5	7.6	0.9	14280.	0.0	0.0	0.0	0.0	67.2	14902.	2640.	0.0	0.	HVA BIT	PREMIUM
170	RAW	2.1	34.6	59.0	5.8	1.1	14476.	5.4	84.1	1.5	5.8	63.8	14931.	2384.	8.5	60.	HVA BIT	MARGINAL
176	RAW	2.0	28.7	64.1	7.2	1.0	14419.	4.9	81.5	1.5	3.9	69.8	15058.	2774.	6.7	84.	MV BIT	PREMIUM
285	RAW	2.7	21.0	73.8	5.1	1.0	14643.	4.6	85.3	1.7	2.8	78.4	15125.	2519.	8.8	103.	LV BIT	PREMIUM
285	WASH	4.2	20.7	75.1	4.2	0.6	15015.	4.8	89.3	1.8	2.1	78.9	14945.	2539.	9.0	100.	LV BIT	PREMIUM
311	RAW	2.0	18.3	76.3	5.4	0.7	14801.	4.5	86.5	1.5	2.5	81.3	15187.	2775.	6.9	101.	LV BIT	PREMIUM
311	WASH	3.2	18.3	76.5	5.2	0.7	14867.	4.6	87.6	1.7	2.4	81.2	15127.	2643.	8.5	97.	LV BIT	PREMIUM
318	RAW	2.5	16.1	76.5	5.4	0.8	14840.	4.6	86.7	1.5	2.5	81.5	15236.	2666.	8.8	102.	LV BIT	PREMIUM
318	WASH	3.0	19.5	76.4	4.1	1.1	15050.	0.0	0.0	0.0	0.0	80.3	15105.	2150.	0.0	0.	LV BIT	MARGINAL
334	RAW	2.4	16.6	76.4	5.0	0.9	14875.	4.4	86.4	1.3	2.1	83.2	15202.	2700.	0.0	0.	LV BIT	PREMIUM
342	RAW	2.9	16.8	77.5	5.7	0.8	14804.	4.3	84.1	1.3	2.5	82.9	15179.	2751.	6.4	0.	LV BIT	PREMIUM
342	WASH	3.7	16.3	78.0	5.6	0.8	14804.	4.3	87.3	1.3	2.1	83.3	15044.	2806.	7.5	102.	LV BIT	PREMIUM
344	RAW	2.4	16.4	76.1	7.5	0.8	14466.	4.3	85.0	1.2	2.3	83.1	15237.	2641.	7.5	0.	LV BIT	PREMIUM
344	WASH	2.7	16.1	75.6	6.3	0.7	14337.	4.3	87.1	1.3	2.3	83.3	15175.	2900.	6.0	91.	LV BIT	MARGINAL
888	RAW	3.9	20.5	72.7	6.9	0.8	14560.	0.0	0.0	0.0	0.0	78.7	14962.	2630.	8.5	0.	LV BIT	PREMIUM
888	WASH	3.7	20.7	75.2	4.1	0.9	15009.	0.0	0.0	0.0	0.0	79.0	14973.	2566.	0.0	0.	LV BIT	PREMIUM
891	RAW	2.7	16.5	75.5	5.9	0.8	14672.	0.0	0.0	0.0	0.0	81.0	15125.	2767.	8.5	100.	LV BIT	PREMIUM
934	RAW	2.4	31.2	61.4	7.4	0.9	14310.	0.0	0.0	0.0	0.0	66.9	15027.	2733.	0.0	0.	HVA BIT	PREMIUM
958	RAW	2.9	35.3	56.8	5.8	0.6	14296.	0.0	0.0	0.0	0.0	62.9	14709.	2908.	7.0	50.	HVA BIT	PREMIUM

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BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
960	WASH	2.2	30.6	63.7	5.8	0.7	14460.	0.0	0.0	0.0	0.0	68.1	14967.	2900.	8.0	75.	HVA BIT	PREMIUM
963	WASH	6.7	17.4	77.7	4.9	0.7	14910.	0.0	0.0	0.0	0.0	82.3	14544.	2890.	9.0	100.	LV BIT	PREMIUM
990	RAW	2.3	15.9	74.8	9.3	0.8	14184.	0.0	0.0	0.0	0.0	83.5	15245.	2874.	0.0	0.	LV BIT	MARGINAL
990	WASH	2.1	16.1	75.4	8.5	0.7	14306.	0.0	0.0	0.0	0.0	83.3	15293.	2890.	0.0	0.	LV BIT	MARGINAL
991	WASH	3.4	16.9	79.1	4.0	0.6	15073.	0.0	0.0	0.0	0.0	82.9	15104.	2797.	8.5	0.	LV BIT	PREMIUM
994	RAW	2.2	15.5	74.1	10.4	0.7	13957.	0.0	0.0	0.0	0.0	83.7	15241.	2890.	0.0	0.	LV BIT	MARGINAL
994	WASH	3.9	16.1	77.3	6.6	0.7	14603.	0.0	0.0	0.0	0.0	83.5	14974.	2910.	7.0	98.	LV BIT	PREMIUM
COUNTY:		83	RANDOLPH															
001	RAW	2.7	29.7	55.2	15.2	2.0	12922.	0.0	0.0	0.0	0.0	66.5	14660.	2755.	7.0	74.	HVA BIT	LATENT
076	RAW	3.4	29.6	57.7	12.7	1.4	13349.	4.6	71.9	1.5	4.4	67.2	14671.	2870.	7.2	74.	HVA BIT	LATENT
080	RAW	4.6	32.3	55.8	12.0	2.2	13213.	0.0	0.0	0.0	0.0	64.5	14081.	2477.	5.0	73.	HVA BIT	LATENT
084	RAW	2.9	29.5	58.0	12.5	1.6	13384.	4.9	76.3	1.5	4.3	67.4	14726.	2804.	7.2	73.	HVA BIT	LATENT
084	WASH	3.8	31.0	59.3	9.7	1.3	13880.	0.0	0.0	0.0	0.0	66.6	14667.	2910.	7.5	0.	HVA BIT	MARGINAL
167	RAW	3.6	32.9	62.6	4.5	0.8	14658.	5.4	83.7	1.5	5.0	66.0	14677.	2342.	8.7	59.	HVA BIT	PREMIUM
216	RAW	4.7	23.6	67.8	8.6	0.6	14160.	0.0	0.0	0.0	0.0	74.9	14723.	2910.	7.5	70.	MV BIT	MARGINAL
285	RAW	3.4	29.0	64.4	6.6	0.7	14445.	5.0	81.4	1.3	4.9	69.5	14898.	2814.	7.0	66.	MV BIT	PREMIUM
799	RAW	4.9	27.1	67.0	5.9	0.5	14420.	0.0	0.0	0.0	0.0	71.7	14532.	2750.	4.5	71.	MV BIT	PREMIUM
928	RAW	3.8	30.1	59.4	10.5	0.9	13810.	0.0	0.0	0.0	0.0	67.2	14784.	2910.	8.0	79.	HVA BIT	MARGINAL
COUNTY:		91	TAYLOR															
001	RAW	4.9	35.7	54.1	10.2	2.2	13490.	0.0	0.0	0.0	0.0	61.2	14025.	2220.	7.2	0.	HVA BIT	LATENT
033	RAW	2.2	36.3	54.5	9.2	2.6	13760.	0.0	0.0	0.0	0.0	61.0	14540.	2120.	8.0	61.	HVA BIT	LATENT
036	RAW	2.5	37.3	54.0	8.7	2.5	13922.	5.2	77.0	1.5	5.2	60.1	14593.	2202.	7.8	61.	HVA BIT	LATENT
COUNTY:		93	TUCKER															
063	RAW	3.2	23.0	66.1	11.0	0.7	13870.	0.0	0.0	0.0	0.0	75.1	15069.	2665.	9.0	95.	MV BIT	MARGINAL
071	RAW	3.4	24.4	66.9	8.6	1.2	14127.	0.0	0.0	0.0	0.0	74.1	14825.	2701.	7.7	95.	MV BIT	MARGINAL
950	RAW	2.3	22.5	71.4	6.1	0.9	14667.	0.0	0.0	0.0	0.0	76.7	15188.	2570.	0.0	0.	MV BIT	PREMIUM

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BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
	COUNTY:	97	UPSHUR															
001	RAW	3.2	37.3	52.7	10.0	2.6	13535.	0.0	0.0	0.0	0.0	59.6	14276.	2267.	7.2	0.	HVA BIT	LATENT
033	RAW	2.8	37.2	54.3	8.5	2.4	13759.	5.2	76.4	1.3	6.4	60.3	14353.	2156.	7.7	60.	HVA BIT	LATENT
033	WASH	3.5	40.2	52.6	7.2	2.9	14001.	5.2	77.9	1.7	5.8	57.6	14224.	2162.	7.1	0.	HVA BIT	LATENT
036	RAW	2.4	38.9	51.2	9.9	3.6	13623.	5.1	75.3	1.3	4.9	58.0	14350.	2160.	7.0	58.	HVA BIT	LATENT
055	RAW	3.3	35.5	47.8	16.7	3.0	12470.	0.0	0.0	0.0	0.0	59.0	14157.	0.	0.0	0.	HVA BIT	LATENT
071	RAW	2.2	37.7	52.8	9.5	1.4	13711.	5.3	77.7	1.6	6.5	59.1	14699.	2382.	7.5	58.	HVA BIT	MARGINAL
071	WASH	4.9	38.4	52.8	8.8	1.5	13793.	0.0	0.0	0.0	0.0	58.7	14220.	2410.	8.0	53.	HVA BIT	MARGINAL
080	RAW	8.2	29.5	56.0	14.5	0.6	12170.	0.0	0.0	0.0	0.0	66.6	12970.	2910.	1.0	60.	HVC BIT	LATENT
952	RAW	5.8	35.3	50.5	14.2	2.2	12680.	0.0	0.0	0.0	0.0	60.1	13658.	2210.	6.5	0.	HVB BIT	LATENT
	COUNTY:	99	WAYNE															
157	WASH	4.5	40.5	55.1	4.4	0.8	14270.	0.0	0.0	0.0	0.0	58.0	14180.	2827.	5.0	0.	HVA BIT	PREMIUM
	COUNTY:	101	WEBSTER															
167	RAW	2.8	37.2	59.4	3.4	0.7	14900.	5.8	83.1	1.9	5.1	61.8	14926.	2680.	8.0	0.	HVA BIT	PREMIUM
285	RAW	2.8	31.1	62.7	6.2	0.6	14515.	5.1	82.6	1.4	4.7	67.3	15002.	2633.	7.5	66.	HVA BIT	PREMIUM
285	WASH	3.0	29.9	63.9	6.2	0.7	14524.	0.0	0.0	0.0	0.0	68.7	14974.	2892.	8.2	66.	HVA BIT	PREMIUM
318	RAW	2.6	27.5	59.7	12.8	0.6	13193.	5.0	79.5	1.1	5.3	69.4	14757.	2880.	7.2	57.	MV BIT	LATENT
318	WASH	2.7	27.1	63.3	9.6	0.8	13730.	0.0	0.0	0.0	0.0	70.8	14745.	2730.	0.0	0.	MV BIT	MARGINAL
946	RAW	4.8	34.2	63.0	2.9	0.8	14690.	0.0	0.0	0.0	0.0	65.2	14314.	2300.	6.0	0.	HVA BIT	PREMIUM
	COUNTY:	109	WYOMING															
001	RAW	5.6	26.9	59.0	14.1	1.1	13210.	0.0	0.0	0.0	0.0	69.9	14372.	2490.	5.7	70.	MV BIT	LATENT
001	WASH	3.4	27.6	66.3	6.1	0.9	14582.	4.4	88.5	1.6	1.8	71.2	14917.	2806.	6.9	88.	MV BIT	PREMIUM
002	RAW	5.8	26.9	59.0	14.1	1.1	13210.	0.0	0.0	0.0	0.0	69.9	14372.	2490.	5.7	70.	MV BIT	LATENT
121	RAW	5.4	31.8	55.1	13.2	0.8	13202.	5.2	76.9	1.3	5.6	64.4	14319.	2825.	7.4	60.	HVA BIT	LATENT
121	WASH	2.5	35.1	59.2	5.7	0.7	14473.	5.2	82.7	1.5	5.2	63.2	14912.	2873.	7.9	87.	HVA BIT	PREMIUM
135	RAW	2.1	35.2	59.0	5.8	0.9	14430.	5.4	81.1	1.5	5.3	63.1	14926.	2430.	7.5	0.	HVA BIT	PREMIUM
157	RAW	3.2	32.6	61.9	5.5	0.8	14180.	5.3	80.2	1.5	6.7	66.0	14457.	2910.	2.0	0.	HVA BIT	PREMIUM

AVERAGE COALBED ANALYSES FOR STATE: 54 WEST VIRGINIA

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
COUNTY: 109 WYOMING (CONTINUED)																		
167	WASH	4.4	29.7	61.1	9.2	1.1	14050.	4.8	80.5	1.4	4.2	68.1	14701.	2790.	8.5	62.	HVA BIT	MARGINAL
168	RAW	3.4	32.0	62.7	5.3	0.7	14551.	5.4	83.3	1.5	5.0	66.7	14798.	2779.	7.8	58.	HVA BIT	PREMIUM
168	WASH	3.2	32.4	63.3	4.3	0.7	14808.	5.2	84.2	1.5	5.4	66.6	14911.	2847.	7.6	64.	HVA BIT	PREMIUM
170	RAW	3.4	32.8	60.8	6.4	0.6	14418.	5.3	83.4	1.5	5.2	65.5	14845.	2811.	7.9	59.	HVA BIT	PREMIUM
170	WASH	3.1	34.5	61.6	3.9	0.6	14774.	0.0	0.0	0.0	0.0	64.4	14842.	2910.	7.8	56.	HVA BIT	PREMIUM
174	WASH	5.0	29.8	64.0	6.2	1.3	14572.	4.9	83.4	1.3	3.3	68.9	14609.	2573.	7.5	79.	HVA BIT	MARGINAL
176	RAW	3.2	30.2	65.3	4.5	0.7	14780.	5.3	85.0	1.5	4.2	68.8	14910.	2805.	7.7	0.	HVA BIT	PREMIUM
176	WASH	3.6	29.5	64.5	6.0	0.6	14601.	4.9	82.6	1.5	4.0	69.1	14927.	2875.	8.0	72.	MV BIT	PREMIUM
216	RAW	2.2	27.5	57.8	14.7	1.3	13155.	4.3	74.9	1.5	3.8	69.1	15031.	2910.	7.2	72.	MV BIT	LATENT
252	RAW	2.8	26.0	70.1	3.9	1.1	15011.	5.2	85.2	1.7	2.7	73.4	15061.	2327.	8.5	93.	MV BIT	MARGINAL
252	WASH	2.7	25.6	71.6	2.8	0.8	15238.	0.0	0.0	0.0	0.0	74.0	15175.	2460.	0.0	0.	MV BIT	PREMIUM
285	RAW	2.5	22.4	72.9	4.7	0.9	14932.	4.9	87.2	1.5	2.7	77.0	15181.	2543.	8.7	95.	MV BIT	PREMIUM
285	WASH	3.8	22.6	72.2	5.2	0.8	14865.	0.0	0.0	0.0	0.0	76.7	15002.	2581.	0.0	0.	MV BIT	PREMIUM
311	RAW	2.7	18.9	74.8	6.3	1.1	14667.	4.6	85.5	1.5	2.3	80.6	15137.	2595.	8.2	106.	LV BIT	MARGINAL
311	WASH	3.1	18.3	75.6	6.2	0.7	14685.	0.0	0.0	0.0	0.0	81.2	15122.	2804.	9.0	100.	LV BIT	PREMIUM
318	RAW	2.1	18.3	76.7	5.0	1.1	14930.	0.0	0.0	0.0	0.0	81.4	15276.	2430.	0.0	0.	LV BIT	MARGINAL
318	WASH	3.8	18.7	75.1	6.3	0.9	14707.	0.0	0.0	0.0	0.0	80.8	14997.	2555.	0.0	0.	LV BIT	PREMIUM
334	RAW	2.8	18.1	75.4	6.5	0.8	14660.	4.3	84.5	1.3	2.8	81.4	15194.	2716.	9.0	0.	LV BIT	PREMIUM
342	RAW	2.7	16.9	75.7	7.5	0.9	14485.	4.6	84.6	1.3	2.4	82.6	15164.	2910.	8.0	0.	LV BIT	PREMIUM
344	RAW	2.4	17.1	75.5	7.3	0.7	14486.	4.3	85.0	1.2	2.4	82.3	15224.	2804.	7.0	0.	LV BIT	PREMIUM
344	WASH	4.0	17.3	75.4	7.2	0.6	14516.	4.3	85.2	1.2	2.6	82.0	14983.	2782.	7.2	91.	LV BIT	PREMIUM
888	RAW	4.3	18.2	75.6	6.2	0.9	14630.	0.0	0.0	0.0	0.0	81.3	14838.	2690.	8.0	100.	LV BIT	PREMIUM
915	RAW	4.6	24.9	70.1	5.0	1.2	14960.	0.0	0.0	0.0	0.0	74.4	14888.	2350.	8.5	0.	MV BIT	MARGINAL
915	WASH	3.8	25.8	70.4	3.8	1.1	15057.	0.0	0.0	0.0	0.0	73.7	14933.	2270.	0.0	94.	MV BIT	MARGINAL
991	RAW	2.6	16.8	75.5	7.7	0.7	14460.	0.0	0.0	0.0	0.0	82.5	15237.	2793.	0.0	0.	LV BIT	PREMIUM
994	WASH	5.3	17.6	73.9	8.5	0.7	14290.	0.0	0.0	0.0	0.0	81.6	14726.	2910.	0.0	0.	LV BIT	MARGINAL

AVERAGE COALBED ANALYSES FOR STATE: 56 WYOMING

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL. MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
	COUNTY:	1	ALBANY															
799	RAW	18.8	38.2	46.8	15.0	1.0	10880.	4.6	62.0	1.1	16.2	56.0	10068.	2500.	0.0	0.	SUBBIT B	
	COUNTY:	3	BIG HORN															
799	RAW	15.7	40.2	45.1	14.8	2.3	11420.	4.9	64.1	1.3	12.7	54.0	10874.	2180.	0.0	0.	HVC BIT	LATENT
	COUNTY:	5	CAMPBELL															
706	RAW	32.8	46.4	43.8	9.8	0.9	11520.	0.0	0.0	0.0	0.0	49.1	8272.	2320.	0.0	0.	LIGNIT A	
787	RAW	29.8	43.4	46.6	10.0	1.0	11629.	4.7	68.5	1.0	16.1	52.4	8756.	2228.	0.0	0.	SUBBIT C	
799	RAW	30.8	43.8	49.0	7.2	0.4	11750.	4.7	69.1	1.0	17.6	53.2	8565.	2180.	0.0	0.	SUBBIT C	
951	RAW	29.1	44.3	46.1	9.6	0.8	11580.	5.0	66.1	1.1	17.0	51.6	8799.	2283.	0.0	58.	SUBBIT C	
	COUNTY:	7	CARBON															
799	RAW	11.5	42.4	49.3	8.3	0.8	12323.	4.8	69.7	1.5	15.9	54.3	11756.	2297.	0.0	48.	HVC BIT	MARGINAL
804	RAW	11.1	46.7	46.7	6.6	0.4	12667.	5.0	70.0	1.3	15.6	50.4	11970.	2345.	0.0	50.	HVC BIT	PREMIUM
817	RAW	11.1	44.4	49.2	6.4	0.4	12577.	5.1	70.8	1.2	16.4	52.9	11866.	2347.	0.0	51.	HVC BIT	PREMIUM
818	RAW	11.7	44.3	48.6	7.1	0.5	12576.	0.0	0.0	0.0	0.0	52.7	11854.	2209.	0.0	48.	HVC BIT	PREMIUM
819	RAW	12.2	43.8	49.2	7.0	0.6	12575.	0.0	0.0	0.0	0.0	53.3	11766.	2355.	0.0	50.	HVC BIT	PREMIUM
955	RAW	11.0	43.0	49.4	7.6	0.4	12487.	0.0	0.0	0.0	0.0	53.8	11948.	2222.	0.0	53.	HVC BIT	PREMIUM
	COUNTY:	9	CONVERSE															
522	RAW	25.0	41.6	40.7	17.7	0.8	10040.	4.6	59.9	0.8	16.2	50.4	8722.	0.	0.0	0.	SUBBIT C	
523	RAW	24.8	45.3	45.0	9.7	0.9	11800.	4.8	65.5	0.8	18.3	50.4	9557.	0.	0.0	0.	SUBBIT B	
799	RAW	26.2	43.8	46.9	9.2	0.8	11396.	4.5	66.8	1.1	17.1	52.3	9025.	2275.	0.0	46.	SUBBIT C	
	COUNTY:	11	CROOK															
799	RAW	19.3	43.4	43.5	13.1	6.1	11481.	4.9	65.4	1.0	11.9	51.6	9889.	2263.	0.0	0.	SUBBIT B	
	COUNTY:	13	FREMONT															
799	RAW	20.7	41.3	50.0	8.7	0.8	11908.	4.9	70.2	1.5	16.0	55.4	10127.	2253.	0.0	52.	SUBBIT B	

AVERAGE COALBED ANALYSES FOR STATE: 56 WYOMING

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
COUNTY:	17	HOT SPRINGS																
001	RAW	13.5	39.3	53.1	7.5	0.7	12633.	5.2	73.8	1.5	13.2	58.0	11680.	2432.	0.0	0.	HVC BIT	PREMIUM
799	RAW	13.2	40.8	53.0	6.2	0.7	12796.	5.0	73.1	1.5	13.6	56.9	11720.	2236.	0.0	54.	HVC BIT	PREMIUM
COUNTY:	19	JOHNSON																
691	RAW	28.4	43.4	47.5	9.1	1.0	11170.	4.5	64.6	1.0	19.8	52.8	8528.	0.	0.0	0.	SUBBIT C	
799	RAW	25.6	41.9	44.8	13.3	1.3	10722.	4.6	61.5	0.9	18.6	52.5	8826.	2220.	0.0	37.	SUBBIT C	
COUNTY:	23	LINCOLN																
001	RAW	28.6	43.9	50.6	5.3	0.3	11230.	0.0	0.0	0.0	0.0	53.9	8338.	2230.	0.0	84.	SUBBIT C	
782	RAW	20.0	43.1	53.1	3.8	0.8	12788.	5.1	73.6	1.1	15.4	55.5	10509.	2447.	0.0	56.	HVC BIT	PREMIUM
799	RAW	8.3	40.7	51.2	8.1	0.7	12887.	5.0	72.8	1.4	12.7	56.2	12762.	2326.	1.3	55.	HVC BIT	MARGINAL
801	RAW	5.5	42.7	49.7	7.5	0.9	13109.	5.2	74.9	1.2	11.3	54.3	13314.	2200.	1.0	50.	HVB BIT	PREMIUM
801	WASH	9.0	41.8	45.8	12.4	0.8	12130.	0.0	0.0	0.0	0.0	53.0	12472.	2210.	1.5	0.	HVC BIT	LATENT
803	RAW	3.8	38.8	53.6	7.6	1.0	13486.	5.1	77.9	1.4	9.5	58.5	13950.	2332.	0.0	0.	HVB BIT	PREMIUM
COUNTY:	25	NATRONA																
799	RAW	25.5	39.3	50.8	9.9	0.8	11134.	0.0	0.0	0.0	0.0	57.1	8945.	2320.	0.0	0.	SUBBIT C	
COUNTY:	29	PARK																
799	RAW	14.7	38.6	50.1	11.2	0.7	11619.	4.6	66.6	1.2	16.1	57.2	10973.	2516.	0.0	46.	HVC BIT	MARGINAL
COUNTY:	33	SHERIDAN																
002	RAW	22.3	43.1	51.2	5.7	0.6	12184.	0.0	0.0	0.0	0.0	54.6	9890.	2227.	0.0	0.	SUBBIT B	
520	RAW	22.9	42.7	48.5	8.8	1.2	11796.	4.8	67.5	1.5	16.7	53.8	9710.	2173.	0.0	0.	SUBBIT B	
698	RAW	24.7	49.9	43.8	6.3	0.5	11820.	4.7	68.4	1.4	18.7	47.1	9341.	0.	0.0	0.	SUBBIT C	
701	RAW	26.4	46.3	46.4	7.3	0.9	11320.	5.0	67.0	1.4	17.5	50.5	8786.	0.	0.0	0.	SUBBIT C	
702	RAW	24.6	45.7	46.5	7.9	1.3	11400.	4.4	66.0	1.3	19.1	51.0	9082.	0.	0.0	0.	SUBBIT C	
708	RAW	24.7	46.7	39.9	13.4	0.6	10120.	0.0	0.0	0.0	0.0	46.7	8503.	0.	0.0	0.	SUBBIT C	
783	RAW	21.1	42.5	51.6	5.9	0.6	12256.	5.0	70.6	1.4	16.8	55.2	10116.	2184.	0.0	42.	SUBBIT B	
784	RAW	23.2	43.6	51.1	5.4	0.5	12178.	4.7	70.5	1.4	17.6	54.3	9741.	2161.	0.0	58.	SUBBIT B	

AVERAGE COALBED ANALYSES FOR STATE: 56 WYOMING

BED	TYPE ANAL	********PROXIMATE******** MOI REC	DRY VOL MATT	DRY FIXD CARB	DRY ASH	DRY SUL	DRY BTU	********ULTIMATE******** DRY HYD	DRY CAR	DRY NIT	DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
786	RAW	24.4	44.5	49.7	5.9	0.7	12194.	4.7	69.2	1.5	17.8	53.1	9629.	2239.	0.0	51.	SUBBIT B	
799	RAW	23.1	44.1	49.1	6.8	0.6	12024.	5.0	68.6	1.6	17.2	53.1	9756.	2311.	0.0	43.	SUBBIT B	
952	RAW	23.6	43.3	52.3	4.4	0.5	12453.	0.0	0.0	0.0	0.0	55.0	9839.	2362.	0.0	42.	SUBBIT B	
COUNTY:	35	SUBLETTE																
799	RAW	9.1	40.9	52.2	7.0	0.7	12897.	5.3	75.6	1.4	13.3	56.5	12502.	2242.	1.0	52.	HVC BIT	PREMIUM
COUNTY:	37	SWEETWATER																
001	RAW	8.0	42.3	53.3	4.4	1.0	13433.	5.4	77.7	1.7	11.7	56.2	12806.	2388.	1.5	57.	HVC BIT	PREMIUM
506	RAW	15.5	40.6	56.5	2.9	1.1	12700.	4.9	73.9	1.7	15.5	58.5	10918.	2180.	0.0	47.	HVC BIT	MARGINAL
788	RAW	10.9	34.6	47.9	17.5	1.1	10540.	4.1	60.6	1.0	15.7	59.3	11162.	0.	0.0	0.	HVC BIT	LATENT
789	RAW	14.2	39.8	55.1	5.1	1.3	12660.	5.1	72.3	1.6	14.6	58.5	11270.	2070.	0.0	0.	HVC BIT	MARGINAL
790	RAW	8.1	41.8	53.2	5.0	0.9	13297.	5.2	74.5	1.6	13.3	56.4	12745.	2626.	0.0	45.	HVC BIT	PREMIUM
791	RAW	11.6	41.8	52.8	5.4	1.1	13101.	5.1	74.8	1.5	13.3	56.2	12090.	2362.	1.0	48.	HVC BIT	MARGINAL
792	RAW	15.0	42.8	52.8	4.4	1.0	13034.	5.1	74.6	1.6	14.0	55.6	11448.	2142.	1.5	49.	HVC BIT	PREMIUM
793	RAW	11.7	43.8	53.5	2.7	1.0	13589.	5.2	74.7	1.6	13.8	55.3	12215.	2123.	2.0	51.	HVC BIT	PREMIUM
794	RAW	11.5	42.0	53.4	4.6	1.0	13232.	5.1	75.1	1.6	13.1	56.3	12136.	2409.	1.5	50.	HVC BIT	PREMIUM
794	WASH	10.2	43.7	51.8	4.6	1.0	13320.	0.0	0.0	0.0	0.0	54.6	12408.	2870.	0.0	0.	HVC BIT	PREMIUM
795	RAW	16.0	41.3	55.5	3.2	0.9	13066.	5.3	75.2	1.7	14.6	57.6	11213.	2034.	0.0	0.	HVC BIT	PREMIUM
796	RAW	12.7	42.6	53.1	4.2	1.1	13283.	5.2	74.6	1.7	12.9	55.9	11965.	2146.	1.0	48.	HVC BIT	MARGINAL
796	WASH	10.3	43.2	54.1	2.7	0.9	13700.	0.0	0.0	0.0	0.0	55.9	12531.	2222.	0.0	51.	HVC BIT	PREMIUM
797	RAW	14.6	41.4	54.2	4.3	0.8	13017.	5.3	75.2	1.6	13.3	57.0	11500.	2260.	1.5	51.	HVC BIT	PREMIUM
798	RAW	13.4	39.4	55.6	5.1	1.2	13142.	5.2	73.9	1.6	14.0	59.0	11809.	2280.	0.0	0.	HVC BIT	MARGINAL
799	RAW	15.6	39.0	55.0	6.1	1.1	12061.	4.6	69.7	1.5	16.8	59.0	10666.	2100.	0.0	0.	HVC BIT	MARGINAL
953	RAW	9.5	41.8	52.8	5.4	1.0	13295.	5.4	77.4	1.7	11.6	56.2	12580.	2535.	1.5	53.	HVC BIT	PREMIUM
954	RAW	13.5	41.2	55.1	3.7	0.9	13109.	0.0	0.0	0.0	0.0	57.6	11649.	2110.	0.0	0.	HVC BIT	PREMIUM

AVERAGE COALBED ANALYSES FOR STATE: 56 WYOMING

BED	TYPE ANAL	MOI REC	PROXIMATE DRY VOL MATT	PROXIMATE DRY FIXD CARB	PROXIMATE DRY ASH	DRY SUL	DRY BTU	ULTIMATE DRY HYD	ULTIMATE DRY CAR	ULTIMATE DRY NIT	ULTIMATE DRY OXY	DMMF FC	MMMF BTU	AST	AVER FSI	AVER HGI	RANK	GRADE
	COUNTY:	39	TETON															
799	RAW	8.4	43.9	47.9	8.2	0.5	12844.	5.6	76.6	1.8	12.1	52.6	12741.	2339.	0.0	0.	HVC BIT	MARGINAL
	COUNTY:	41	UINTA															
799	RAW	9.3	39.4	46.5	14.1	1.3	11841.	4.6	67.0	1.2	12.9	55.1	12291.	2518.	1.5	50.	HVC BIT	LATENT
	COUNTY:	43	WASHAKIE															
799	RAW	15.9	44.2	41.3	14.6	0.9	10810.	4.6	60.7	0.9	14.4	49.1	10394.	0.	0.0	0.	SUBBIT B	
	COUNTY:	45	WESTON															
799	RAW	21.8	41.9	45.5	12.7	2.8	11304.	4.6	64.7	1.0	13.2	53.1	9654.	2508.	0.0	0.	SUBBIT B	

APPENDIX B.--DEMONSTRATED RESERVE BASE (DRB) OF U.S. COKING COAL BY STATE, COUNTY, RANK, AND GRADE (MILLION TONS)[1]

ALABAMA

County	High volatile			Medium volatile			Low volatile			County totals		
	Premium	Marginal	Latent	Premium	Marginal	Latent	Premium	Marginal	Latent	Coking coal DRB	Sulfur >3.0% DRB	Premium + marginal DRB
Bibb.....	181.00	108.00	107.00	-	-	-	-	-	-	396.00	-	289.00
Blount.....	1.88	-	-	-	-	-	-	-	-	1.88	-	1.88
Cullman.....	32.11	-	-	-	-	-	-	-	-	32.11	-	32.11
DeKalb.....	-	-	-	-	-	-	-	-	-	-	-	-
Etowah.....	-	-	-	-	-	-	-	-	-	-	-	-
Fayette.....	-	-	-	-	-	-	-	-	-	-	-	-
Jackson.....	-	-	-	-	-	-	-	-	-	-	-	-
Jefferson...	21.22	188.96	20.02	-	473.86	71.82	-	-	-	775.88	-	684.04
Marion.....	-	110.47	-	-	-	-	-	-	-	110.47	-	110.47
St. Clair...	.60	1.00	.90	-	-	-	-	-	-	2.50	-	1.60
Shelby.....	-	-	-	-	-	-	-	-	-	-	-	-
Tuscaloosa..	-	28.63	85.51	1.00	-	-	-	-	-	115.14	-	29.63
Walker.....	-	25.18	639.96	-	-	-	-	-	-	665.14	-	25.18
Winston.....	-	-	-	-	-	-	-	-	-	-	-	-
Total....	236.81	462.24	853.39	1.00	473.86	71.82	-	-	-	2,099.12	-	1,173.91

ARKANSAS

County	High volatile			Medium volatile			Low volatile			County totals		
	Premium	Marginal	Latent	Premium	Marginal	Latent	Premium	Marginal	Latent	Coking coal DRB	Sulfur >3.0% DRB	Premium + marginal DRB
Crawford....	-	-	-	-	-	-	-	-	-	-	-	-
Franklin....	-	-	-	-	-	-	-	37.70	13.10	50.80	-	37.70
Johnson.....	-	-	-	-	-	-	20.00	-	-	20.00	-	20.00
Logan.....	-	-	-	-	-	-	-	-	10.10	10.10	-	-
Pope.....	-	-	-	-	-	-	-	-	-	-	-	-
Scott.....	-	-	-	-	-	-	-	17.60	-	17.60	-	17.60
Sebastian...	-	-	-	-	-	-	4.50	326.70	-	331.20	-	331.20
Total....	-	-	-	-	-	-	24.50	382.00	23.20	429.70	-	406.50

[1]All dashes shown in appendix B indicate that there is no coking coal reserve base in that category.

COLORADO

County	High volatile			Medium volatile			Low volatile			County totals		
	Premium	Marginal	Latent	Premium	Mar-ginal	Latent	Premium	Mar-ginal	Latent	Coking coal DRB	Sulfur >3.0% DRB	Premium + marginal DRB
Archuleta.....	-	-	92.10	-	-	-	-	-	-	92.10	-	-
Boulder.....	-	-	-	-	-	-	-	-	-	-	-	-
Delta.....	58.92	-	-	-	-	-	-	-	-	58.92	-	-
Elbert.....	-	-	-	-	-	-	-	-	-	-	-	-
El Paso.....	-	-	-	-	-	-	-	-	-	-	-	-
Fremont.....	-	157.72	-	-	-	-	-	-	-	157.72	-	157.72
Garfield.....	41.27	52.47	-	-	-	-	-	-	-	93.74	-	93.74
Gunnison.....	217.73	207.58	-	-	-	-	-	-	-	425.31	-	425.31
Huerfano.....	-	69.11	-	-	-	-	-	-	-	106.51	-	69.11
Jackson.....	115.00	-	-	-	-	-	-	-	-	115.00	-	115.00
Jefferson.....	-	-	-	-	-	-	-	-	-	-	-	-
La Plata.....	-	299.52	-	-	-	-	-	-	-	299.52	-	299.52
Las Animas....	-	61.38	370.77	-	-	-	-	-	-	432.15	-	61.38
Mesa.....	-	188.78	-	-	-	-	-	-	-	188.78	-	188.78
Moffat.....	270.00	-	-	-	-	-	-	-	-	270.00	-	270.00
Montezuma.....	-	19.11	-	-	-	-	-	-	-	19.11	-	19.11
Montrose.....	-	60.00	-	-	-	-	-	-	-	60.00	-	60.00
Park.....	-	-	-	-	-	-	-	-	-	-	-	-
Pitkins.....	16.44	22.83	18.61	-	4.51	-	-	-	-	62.39	-	43.78
Rio Blanco....	30.00	-	-	-	-	-	-	-	-	30.00	-	30.00
Routt.....	1,276.63	531.04	91.77	-	-	-	-	-	-	1,899.44	-	1,807.67
San Miguel....	-	-	-	-	-	-	-	-	-	-	-	-
Weld.....	-	-	-	-	-	-	-	-	-	-	-	-
Total.....	2,025.99	1,669.54	610.65	-	4.51	-	-	-	-	4,310.69	-	3,700.04

ILLINOIS

County	High volatile			Medium volatile			Low volatile			County totals		
	Premium	Marginal	Latent	Premium	Marginal	Latent	Premium	Marginal	Latent	Coking coal DRB	Sulfur >3.0% DRB	Premium + marginal DRB
Adams.....	-	-	-	-	-	-	-	-	-	-	-	-
Bond.....	-	-	1,752.10	-	-	-	-	-	-	1,752.10	1,752.10	-
Brown.....	-	-	-	-	-	-	-	-	-	-	-	-
Bureau.....	-	-	839.82	-	-	-	-	-	-	839.82	839.82	-
Calhoun....	-	-	6.26	-	-	-	-	-	-	6.26	6.26	-
Cass.....	-	-	-	-	-	-	-	-	-	-	-	-
Christian..	-	-	2,651.30	-	-	-	-	-	-	2,651.30	2,651.30	-
Clark.....	-	-	-	-	-	-	-	-	-	-	-	-
Clinton....	-	-	1,320.34	-	-	-	-	-	-	1,320.34	1,320.34	-
Coles.....	-	-	-	-	-	-	-	-	-	-	-	-
Crawford...	-	-	-	-	-	-	-	-	-	-	-	-
Cumberland.	-	-	-	-	-	-	-	-	-	-	-	-
Douglas....	-	-	390.61	-	-	-	-	-	-	390.61	-	-
Edgar.....	-	-	333.50	-	-	-	-	-	-	333.50	333.50	-
Edwards....	-	-	-	-	-	-	-	-	-	-	-	-
Fayette....	-	-	-	-	-	-	-	-	-	-	-	-
Franklin...	-	1,875.68	-	-	-	-	-	-	-	1,875.68	-	1,875.68
Fulton.....	-	-	953.32	-	-	-	-	-	-	953.32	953.32	-
Gallatin...	-	-	698.23	-	-	-	-	-	-	698.23	698.23	-
Greene.....	-	-	-	-	-	-	-	-	-	-	-	-
Grundv.....	-	-	552.55	-	-	-	-	-	-	552.55	552.55	-
Hamilton...	-	-	-	-	-	-	-	-	-	-	-	-
Hancock....	-	-	-	-	-	-	-	-	-	-	-	-
Henry.....	-	-	350.43	-	-	-	-	-	-	350.43	350.43	-
Jackson....	-	82.13	221.24	-	-	-	-	-	-	303.37	221.24	82.13
Jefferson..	-	1,305.60	-	-	-	-	-	-	-	1,305.60	-	1,305.60
Jersey.....	-	-	-	-	-	-	-	-	-	-	-	-
Kankakee...	-	-	63.05	-	-	-	-	-	-	63.05	63.05	-
Knox.....	-	-	387.41	-	-	-	-	-	-	387.41	387.41	-
La Salle...	-	-	1,056.48	-	-	-	-	-	-	1,056.48	1,056.48	-
Lawrence...	-	-	-	-	-	-	-	-	-	-	-	-
Livingston.	-	-	-	-	-	-	-	-	-	-	-	-
Logan.....	-	-	813.68	-	-	-	-	-	-	813.68	813.68	-
McDonough..	-	-	-	-	-	-	-	-	-	-	-	-
McLean.....	-	-	-	-	-	-	-	-	-	-	-	-
Macon.....	-	-	420.39	-	-	-	-	-	-	420.39	420.39	-

ILLINOIS--Continued

County	High volatile			Medium volatile			Low volatile			County totals		
	Premium	Marginal	Latent	Premium	Marginal	Latent	Premium	Marginal	Latent	Coking coal DRB	Sulfur >3.0% DRB	Premium + marginal DRB
Macoupin...	-	-	3,169.62	-	-	-	-	-	-	3,169.62	3,169.62	-
Madison....	-	-	1,875.68	-	-	-	-	-	-	1,875.68	1,875.68	-
Marion.....	-	-	319.35	-	-	-	-	-	-	319.35	319.35	-
Marshall...	-	-	193.64	-	-	-	-	-	-	193.64	193.64	-
Menard.....	-	-	1,460.00	-	-	-	-	-	-	1,460.00	1,460.00	-
Mercer.....	-	-	-	-	-	-	-	-	-	-	-	-
Monroe.....	-	-	-	-	-	-	-	-	-	-	-	-
Montgomery.	-	-	3,424.75	-	-	-	-	-	-	3,424.75	3,424.75	-
Morgan.....	-	-	238.73	-	-	-	-	-	-	238.73	238.73	-
Moultrie...	-	-	-	-	-	-	-	-	-	-	-	-
Peoria.....	-	-	1,673.96	-	-	-	-	-	-	1,673.96	1,673.96	-
Perry.....	-	-	2,174.35	-	-	-	-	-	-	2,174.35	2,174.35	-
Putnam.....	-	-	329.00	-	-	-	-	-	-	329.00	329.00	-
Randolph...	-	-	631.16	-	-	-	-	-	-	631.16	631.16	-
Rock Island	-	-	-	-	-	-	-	-	-	-	-	-
St. Clair..	-	-	2,094.82	-	-	-	-	-	-	2,094.82	2,094.82	-
Saline.....	-	-	2,709.58	-	-	-	-	-	-	2,709.58	1,803.24	-
Sangamon...	-	-	3,514.44	-	-	-	-	-	-	3,514.44	3,514.44	-
Schuyler...	-	-	99.11	-	-	-	-	-	-	99.11	99.11	-
Scott.....	-	-	165.52	-	-	-	-	-	-	165.52	165.52	-
Shelby.....	-	-	53.11	-	-	-	-	-	-	53.11	53.11	-
Stark.....	-	-	234.00	-	-	-	-	-	-	234.00	234.00	-
Tazewell...	-	-	62.35	-	-	-	-	-	-	62.35	62.35	-
Vermillion.	-	-	1,852.90	-	-	-	-	-	-	1,852.90	1,181.91	-
Wabash.....	-	-	-	-	-	-	-	-	-	-	-	-
Warren.....	-	-	-	-	-	-	-	-	-	-	-	-
Washington.	-	-	1,551.06	-	-	-	-	-	-	1,551.06	1,551.06	-
Wayne.....	-	-	-	-	-	-	-	-	-	-	-	-
White.....	-	-	360.64	-	-	-	-	-	-	360.64	360.64	-
Will.....	-	-	15.43	-	-	-	-	-	-	15.43	15.43	-
Williamson..	-	665.29	883.60	-	-	-	-	-	-	1,548.89	883.00	665.29
Woodford...	-	141.84	-	-	-	-	-	-	-	141.84	-	141.84
Total...	-	4,070.54	41,899.51	-	-	-	-	-	-	45,968.05	40,057.11	4,070.54

INDIANA

County	High volatile			Medium volatile			Low volatile			County totals		
	Premium	Marginal	Latent	Premium	Marginal	Latent	Premium	Marginal	Latent	Coking coal DRB	Sulfur >3.0% DRB	Premium + marginal DRB
Clay.....	-	83.35	133.01	-	-	-	-	-	-	216.36	94.65	83.35
Daviess....	-	-	-	-	-	-	-	-	-	-	-	-
Fountain...	-	-	12.06	-	-	-	-	-	-	12.06	12.06	-
Gibson.....	-	-	1,136.07	-	-	-	-	-	-	1,136.07	883.39	-
Greene.....	-	.19	378.99	-	-	-	-	-	-	379.18	292.52	.19
Knox.....	-	-	1,219.01	-	-	-	-	-	-	1,219.01	1,219.01	-
Martin.....	-	-	-	-	-	-	-	-	-	-	-	-
Owen.....	-	-	22.84	-	-	-	-	-	-	22.84	22.84	-
Parke.....	-	-	-	-	-	-	-	-	-	-	-	-
Perry.....	-	-	-	-	-	-	-	-	-	-	-	-
Pike.....	-	-	377.31	-	-	-	-	-	-	377.31	376.59	-
Posey.....	-	-	-	-	-	-	-	-	-	-	-	-
Spencer....	-	-	9.80	-	-	-	-	-	-	9.80	9.80	-
Sullivan...	-	998.61	648.94	-	-	-	-	-	-	1,647.55	-	998.61
Vanderburgh	-	-	233.80	-	-	-	-	-	-	233.80	233.80	-
Vermillion.	-	107.68	114.19	-	-	-	-	-	-	221.87	114.19	107.68
Vigo.....	-	513.57	780.87	-	-	-	-	-	-	1,294.44	780.87	513.57
Warrick....	-	139.04	677.21	-	-	-	-	-	-	816.25	677.21	139.04
Total...	-	1,842.44	5,744.10	-	-	-	-	-	-	7,586.54	4,716.93	1,842.44

IOWA

County	High volatile			Medium volatile			Low volatile			County totals		
	Premium	Marginal	Latent	Premium	Marginal	Latent	Premium	Marginal	Latent	Coking coal DRB	Sulfur >3.0% DRB	Premium + marginal DRB
Appanoose	-	-	157.43	-	-	-	-	-	-	157.43	157.43	-
Boone....	-	-	-	-	-	-	-	-	-	-	-	-
Cass.....	-	-	-	-	-	-	-	-	-	-	-	-
Dallas...	-	-	4.61	-	-	-	-	-	-	4.61	4.61	-
Davis....	-	-	1.83	-	-	-	-	-	-	1.83	1.83	-
Decatur..	-	-	-	-	-	-	-	-	-	-	-	-
Greene...	-	-	-	-	-	-	-	-	-	-	-	-
Guthrie..	-	-	-	-	-	-	-	-	-	-	-	-
Hamilton.	-	-	-	-	-	-	-	-	-	-	-	-
Hardin...	-	-	-	-	-	-	-	-	-	-	-	-
Henry....	-	-	-	-	-	-	-	-	-	-	-	-
Jasper...	-	-	70.28	-	-	-	-	-	-	70.28	70.28	-
Jefferson	-	-	-	-	-	-	-	-	-	-	-	-
Keokuk...	-	-	-	-	-	-	-	-	-	-	-	-
Lee.....	-	-	-	-	-	-	-	-	-	-	-	-
Lucas....	-	-	115.62	-	-	-	-	-	-	115.62	115.62	-
Mahaska..	-	-	299.06	-	-	-	-	-	-	299.06	299.06	-
Marion...	-	-	373.70	-	-	-	-	-	-	373.70	373.70	-
Marshall.	-	-	-	-	-	-	-	-	-	-	-	-
Monroe...	-	-	509.67	-	-	-	-	-	-	509.67	509.67	-
Muscatine	-	-	-	-	-	-	-	-	-	-	-	-
Polk.....	-	-	41.68	-	-	-	-	-	-	41.68	41.68	-
Scott....	-	-	-	-	-	-	-	-	-	-	-	-
Story....	-	-	-	-	-	-	-	-	-	-	-	-
Van Buren	-	-	11.75	-	-	-	-	-	-	11.75	11.75	-
Wapello..	-	-	85.61	-	-	-	-	-	-	85.61	85.61	-
Warren...	-	-	65.59	-	-	-	-	-	-	65.59	65.59	-
Wayne....	-	-	-	-	-	-	-	-	-	-	-	-
Webster..	-	-	-	-	-	-	-	-	-	-	-	-
Total.	-	-	1,736.83	-	-	-	-	-	-	1,736.83	1,736.83	-

KANSAS

County	High volatile			Medium volatile			Low volatile			County totals		
	Premium	Marginal	Latent	Premium	Marginal	Latent	Premium	Marginal	Latent	Coking coal DRB	Sulfur >3.0% DRB	Premium + marginal DRB
Atchinson..	-	-	-	-	-	-	-	-	-	-	-	-
Bourbon....	-	-	-	-	-	-	-	-	-	-	-	-
Brown.....	-	-	-	-	-	-	-	-	-	-	-	-
Cherokee...	-	-	187.02	-	-	-	-	-	-	187.02	109.25	-
Cowley.....	-	-	-	-	-	-	-	-	-	-	-	-
Crawford...	-	-	288.18	-	-	-	-	-	-	288.18	176.15	-
Franklin...	-	-	-	-	-	-	-	-	-	-	-	-
Leavenworth	-	-	-	-	-	-	-	-	-	-	-	-
Linn.....	-	-	-	-	-	-	-	-	-	-	-	-
Nemaha.....	-	-	-	-	-	-	-	-	-	-	-	-
Osage.....	-	-	54.19	-	-	-	-	-	-	54.19	54.19	-
Total...	-	-	529.39	-	-	-	-	-	-	529.39	339.59	-

KENTUCKY (WEST)

County	High volatile			Medium volatile			Low volatile			County totals		
	Premium	Marginal	Latent	Premium	Marginal	Latent	Premium	Marginal	Latent	Coking coal DRB	Sulfur >3.0% DRB	Premium + marginal DRB
Butler.....	-	-	-	-	-	-	-	-	-	-	-	-
Christian..	-	-	-	-	-	-	-	-	-	-	-	-
Crittendon.	-	-	-	-	-	-	-	-	-	-	-	-
Daviess....	-	-	114.13	-	-	-	-	-	-	114.13	114.13	-
Edmonson...	-	-	-	-	-	-	-	-	-	-	-	-
Grayson....	-	-	-	-	-	-	-	-	-	-	-	-
Hancock....	-	-	-	-	-	-	-	-	-	-	-	-
Henderson..	-	-	-	-	-	-	-	-	-	-	-	-
Hopkins....	-	-	2,022.08	-	-	-	-	-	-	2,022.08	2,003.57	-
McClean....	-	-	-	-	-	-	-	-	-	-	-	-
Muhlenberg.	-	-	1,889.71	-	-	-	-	-	-	1,889.71	1,849.71	-
Ohio.....	-	-	515.36	-	-	-	-	-	-	515.36	501.37	-
Union.....	-	-	1,681.64	-	-	-	-	-	-	1,681.64	1,681.64	-
Warren.....	-	-	-	-	-	-	-	-	-	-	-	-
Webster....	-	-	1,236.87	-	-	-	-	-	-	1,236.87	1,236.87	-
Total...	-	-	7,459.79	-	-	-	-	-	-	7,459.79	7,387.29	-

KENTUCKY (EAST)

County	High volatile			Medium volatile			Low volatile			County totals		
	Premium	Marginal	Latent	Pre-mium	Mar-ginal	Latent	Pre-mium	Mar-ginal	Latent	Coking coal DRB	Sulfur >3.0% DRB	Premium + marginal DRB
Bell.....	108.54	26.93	11.25	-	-	-	-	-	-	146.82	10.32	135.57
Boyd.....	-	-	-	-	-	-	-	-	-	-	-	-
Breathitt.	14.23	225.91	76.68	-	-	-	-	-	-	316.82	-	240.14
Carter....	-	29.46	-	-	-	-	-	-	-	29.46	-	29.46
Clay.....	42.25	77.23	-	-	-	-	-	-	-	119.48	-	119.48
Clinton...	-	-	-	-	-	-	-	-	-	-	-	-
Elliott...	-	-	-	-	-	-	-	-	-	-	-	-
Floyd.....	709.32	249.01	-	-	-	-	-	-	-	958.33	-	958.33
Greenup...	-	-	-	-	-	-	-	-	-	-	-	-
Harlan....	1,103.31	-	-	-	-	-	-	-	-	1,103.31	-	1,103.31
Jackson...	-	51.20	-	-	-	-	-	-	-	51.20	-	51.20
Johnson...	-	103.73	-	-	-	-	-	-	-	103.73	-	103.73
Knott.....	747.32	344.60	50.46	-	-	-	-	-	-	1,142.38	-	1,091.92
Knox.....	-	43.57	17.78	-	-	-	-	-	-	61.35	-	43.57
Laurel....	-	-	23.04	-	-	-	-	-	-	23.04	18.84	-
Lawrence..	-	-	-	-	-	-	-	-	-	-	-	-
Leslie....	-	-	-	-	-	-	-	-	-	-	-	-
Letcher...	366.85	309.65	88.29	-	-	-	-	-	-	764.79	88.29	676.50
McCreary..	-	.40	184.27	-	-	-	-	-	-	184.67	104.81	.40
Magoffin..	67.66	3.05	-	-	-	-	-	-	-	70.71	-	70.71
Martin....	-	25.29	-	-	-	-	-	-	-	25.29	-	25.29
Menifee...	-	-	-	-	-	-	-	-	-	-	-	-
Morgan....	-	-	-	-	-	-	-	-	-	-	-	-
Owsley....	-	-	-	-	-	-	-	-	-	-	-	-
Perry.....	643.06	127.50	54.15	-	-	-	-	-	-	824.71	-	770.56
Pike.....	560.55	1,382.35	73.02	-	-	-	-	-	-	2,015.92	-	1,942.90
Powell....	-	-	-	-	-	-	-	-	-	-	-	-
Pulaski...	-	7.27	-	-	-	-	-	-	-	7.27	-	7.27
Rockcastle	-	-	-	-	-	-	-	-	-	-	-	-
Wayne.....	-	-	-	-	-	-	-	-	-	-	-	-
Whitley...	-	40.53	10.30	-	-	-	-	-	-	50.83	-	40.53
Wolfe.....	-	-	-	-	-	-	-	-	-	-	-	-
Total..	4,363.19	3,047.68	589.24	-	-	-	-	-	-	8,000.11	222.26	7,410.87

MARYLAND

County	High volatile			Medium volatile			Low volatile			County totals		
	Premium	Marginal	Latent	Premium	Marginal	Latent	Premium	Marginal	Latent	Coking coal DRB	Sulfur >3.0% DRB	Premium + marginal DRB
Allegany	-	-	-	-	-	-	-	12.67	311.29	323.96	-	12.67
Garrett.	-	-	-	-	-	-	0.49	347.07	246.64	594.20	68.28	347.56
Total	-	-	-	-	-	-	.49	359.74	557.93	918.16	68.28	360.23

MICHIGAN

County	High volatile			Medium volatile			Low volatile			County totals		
	Premium	Marginal	Latent	Premium	Marginal	Latent	Premium	Marginal	Latent	Coking coal DRB	Sulfur >3.0% DRB	Premium + marginal DRB
Bay.....	-	55.57	-	-	-	-	-	-	-	55.57	-	55.57
Genesee....	-	-	-	-	-	-	-	-	-	-	-	-
Huron.....	-	-	6.46	-	-	-	-	-	-	6.46	6.46	-
Midland....	-	-	-	-	-	-	-	-	-	-	-	-
Saginaw....	-	27.04	-	-	-	-	-	-	-	27.04	-	27.04
Shiawassee.	-	-	2.36	-	-	-	-	-	-	2.36	-	-
Tuscola....	-	-	19.74	-	-	-	-	-	-	19.74	19.74	-
Total...	-	82.61	28.56	-	-	-	-	-	-	111.17	26.20	82.61

MISSOURI

County	High volatile			Medium volatile			Low volatile			County totals		
	Premium	Marginal	Latent	Premium	Marginal	Latent	Premium	Marginal	Latent	Coking coal DRB	Sulfur >3.0% DRB	Premium + marginal DRB
Adair.....	-	-	447.48	-	-	-	-	-	-	447.48	447.48	-
Audrian....	-	-	-	-	-	-	-	-	-	-	-	-
Barton.....	-	-	156.39	-	-	-	-	-	-	156.39	156.39	-
Bates.....	-	-	389.07	-	-	-	-	-	-	389.07	389.07	-
Boone.....	-	-	260.96	-	-	-	-	-	-	260.96	260.96	-
Caldwell...	-	-	-	-	-	-	-	-	-	-	-	-
Calloway...	-	-	296.68	-	-	-	-	-	-	296.68	296.68	-
Carrol.....	-	-	-	-	-	-	-	-	-	-	-	-
Cass.....	-	-	-	-	-	-	-	-	-	-	-	-
Cedar.....	-	-	-	-	-	-	-	-	-	-	-	-
Chariton...	-	-	-	-	-	-	-	-	-	-	-	-
Clay.....	-	-	32.42	-	-	-	-	-	-	32.42	32.42	-
Dade.....	-	-	-	-	-	-	-	-	-	-	-	-
Daviess....	-	-	74.02	-	-	-	-	-	-	74.02	74.02	-
Grundy.....	-	-	-	-	-	-	-	-	-	-	-	-
Harrison...	-	-	-	-	-	-	-	-	-	-	-	-
Henry.....	-	-	19.75	-	-	-	-	-	-	19.75	19.75	-
Howard.....	-	-	-	-	-	-	-	-	-	-	-	-
Jasper.....	-	-	-	-	-	-	-	-	-	-	-	-
Johnson....	-	-	118.45	-	-	-	-	-	-	118.45	118.45	-
Lafayette..	-	-	59.63	-	-	-	-	-	-	59.63	59.63	-
Lynn.....	-	-	-	-	-	-	-	-	-	-	-	-
Livingston.	-	-	-	-	-	-	-	-	-	-	-	-
Macon.....	-	-	497.61	-	-	-	-	-	-	497.61	497.61	-
Mercer.....	-	-	-	-	-	-	-	-	-	-	-	-
Monroe.....	-	-	-	-	-	-	-	-	-	-	-	-
Montgomery.	-	-	-	-	-	-	-	-	-	-	-	-
Nodaway....	-	-	-	-	-	-	-	-	-	-	-	-
Pettis.....	-	-	-	-	-	-	-	-	-	-	-	-
Putnam.....	-	-	-	-	-	-	-	-	-	-	-	-
Ralls.....	-	-	-	-	-	-	-	-	-	-	-	-
Randolph...	-	-	851.64	-	-	-	-	-	-	851.64	851.64	-
Ray.....	-	-	126.72	-	-	-	-	-	-	126.72	126.72	-
St. Clair..	-	-	8.25	-	-	-	-	-	-	8.25	8.25	-
Saline.....	-	-	-	-	-	-	-	-	-	-	-	-
Schuyler...	-	-	-	-	-	-	-	-	-	-	-	-
Sullivan...	-	-	-	-	-	-	-	-	-	-	-	-
Vernon.....	-	-	317.63	-	-	-	-	-	-	317.63	317.63	-
Worth.....	-	-	-	-	-	-	-	-	-	-	-	-
Total...	-	-	3,656.70	-	-	-	-	-	-	3,656.70	3,656.70	-

MONTANA

County	High volatile			Medium volatile			Low volatile			County totals		
	Premium	Marginal	Latent	Premium	Marginal	Latent	Premium	Marginal	Latent	Coking coal DRB	Sulfur >3.0% DRB	Premium + marginal DRB
Big Horn....	-	-	-	-	-	-	-	-	-	-	-	-
Blaine.....	-	-	-	-	-	-	-	-	-	-	-	-
Broadwater..	-	-	-	-	-	-	-	-	-	-	-	-
Carbon.....	-	-	735.08	-	-	-	-	-	-	735.08	-	-
Cascade.....	-	-	308.82	-	-	-	-	-	-	308.82	308.82	-
Chouteau....	-	-	-	-	-	-	-	-	-	-	-	-
Custer.....	-	-	-	-	-	-	-	-	-	-	-	-
Fergus.....	-	-	210.13	-	-	-	-	-	-	210.13	-	-
Flathead....	-	-	-	-	-	-	-	-	-	-	-	-
Glacier.....	-	-	-	-	-	-	-	-	-	-	-	-
Hill.....	-	-	-	-	-	-	-	-	-	-	-	-
Judith Basin	-	-	-	-	-	-	-	-	-	-	-	-
Meagher.....	-	-	-	-	-	-	-	-	-	-	-	-
Musselshell.	-	-	-	-	-	-	-	-	-	-	-	-
Powder River	-	-	-	-	-	-	-	-	-	-	-	-
Prairie.....	-	-	-	-	-	-	-	-	-	-	-	-
Richland....	-	-	-	-	-	-	-	-	-	-	-	-
Rosebud.....	-	-	-	-	-	-	-	-	-	-	-	-
Sheridan....	-	-	-	-	-	-	-	-	-	-	-	-
Stillwater..	-	-	-	-	-	-	-	-	-	-	-	-
Total....	-	-	1,254.03	-	-	-	-	-	-	1,254.03	308.82	-

NEW MEXICO

County	High volatile			Medium volatile			Low volatile			County totals		
	Premium	Marginal	Latent	Premium	Marginal	Latent	Premium	Marginal	Latent	Coking coal DRB	Sulfur >3.0% DRB	Premium + marginal DRB
Bernalillo	-	-	-	-	-	-	-	-	-	-	-	--
Colfax....	-	1,381.00	-	-	-	-	-	-	-	1,381.00	-	1,381.00
Lincoln...	-	-	6.90	-	-	-	-	-	-	6.90	-	-
McKinley..	-	250.00	-	-	-	-	-	-	-	250.00	-	250.00
Rio Arriba	-	4.50	-	-	-	-	-	-	-	4.50	-	4.50
Sandoval..	-	3.50	-	-	-	-	-	-	-	3.50	-	3.50
San Juan..	-	94.70	-	-	-	-	-	-	-	94.70	-	94.70
Santa Fe..	-	-	-	-	-	-	-	9.10	-	9.10	-	9.10
Socorro...	-	27.50	-	-	-	-	-	-	-	27.50	-	27.50
Valencia..	-	-	-	-	-	-	-	-	-	-	-	-
Total..	-	1,761.20	6.90	-	-	-	-	9.10	-	1,777.20	-	1,770.30

OHIO

County	High volatile			Medium volatile			Low volatile			County totals		
	Premium	Marginal	Latent	Premium	Marginal	Latent	Premium	Marginal	Latent	Coking coal DRB	Sulfur >3.0% DRB	Premium + marginal DRB
Athens....	-	1,009.89	452.09	-	-	-	-	-	-	1,461.98	452.09	1,009.89
Belmont...	-	-	3,804.68	-	-	-	-	-	-	3,804.68	3,804.68	-
Carrol....	-	-	840.04	-	-	-	-	-	-	840.04	554.41	-
Colombiana	-	-	876.07	-	-	-	-	-	-	876.07	164.63	-
Coshocton.	-	-	354.88	-	-	-	-	-	-	354.88	354.88	-
Gallia....	-	-	335.32	-	-	-	-	-	-	335.32	335.32	-
Guernsey..	-	-	682.52	-	-	-	-	-	-	682.52	58.92	-
Harrison..	-	-	1,182.97	-	-	-	-	-	-	1,182.97	412.98	-
Hocking...	-	-	199.04	-	-	-	-	-	-	199.04	-	-
Holmes....	-	-	7.55	-	-	-	-	-	-	7.55	7.55	-
Jackson...	-	-	333.67	-	-	-	-	-	-	333.67	206.58	-
Jefferson.	-	-	1,467.40	-	-	-	-	-	-	1,467.40	1,365.17	-
Lawrence..	-	-	332.03	-	-	-	-	-	-	332.03	138.29	-
Mahoning..	-	-	342.19	-	-	-	-	-	-	342.19	342.19	-
Meigs.....	-	-	485.09	-	-	-	-	-	-	485.09	485.09	-
Monroe....	-	-	-	-	-	-	-	-	-	-	-	-
Morgan....	-	-	483.33	-	-	-	-	-	-	483.33	274.14	-
Muskingum.	-	-	743.13	-	-	-	-	-	-	743.13	743.13	-
Noble.....	-	-	878.56	-	-	-	-	-	-	878.56	703.31	-
Perry.....	-	-	910.94	-	-	-	-	-	-	910.94	122.82	-
Portage...	-	-	-	-	-	-	-	-	-	-	-	-
Scioto....	-	-	-	-	-	-	-	-	-	-	-	-
Stark.....	-	-	505.16	-	-	-	-	-	-	505.16	505.16	-
Tuscarawas	-	-	970.80	-	-	-	-	-	-	970.80	970.80	-
Vinton....	-	-	340.42	-	-	-	-	-	-	340.42	228.30	-
Washington	-	-	215.01	-	-	-	-	-	-	215.01	215.01	-
Wayne.....	-	-	-	-	-	-	-	-	-	-	-	-
Total..	-	1,009.89	16,742.89	-	-	-	-	-	-	17,752.78	12,445.45	1,009.89

OKLAHOMA

County	High volatile			Medium volatile			Low volatile			County totals		
	Premium	Marginal	Latent	Premium	Marginal	Latent	Premium	Marginal	Latent	Coking coal DRB	Sulfur >3.0% DRB	Premium + marginal DRB
Atoka....	-	-	-	-	-	-	-	-	-	-	-	-
Coal.....	-	-	54.25	-	-	-	-	-	-	54.25	-	-
Craig....	-	34.58	156.34	-	-	-	-	-	-	190.92	156.34	34.58
Haskell..	-	-	-	5.60	41.54	84.11	-	-	-	131.25	-	47.14
Latimer..	-	20.38	59.96	-	-	-	-	-	-	80.34	-	20.38
LeFlore..	-	-	-	-	-	3.79	-	61.26	-	65.05	-	61.26
McIntosh.	-	-	-	-	-	-	-	-	-	-	-	-
Muskogee.	-	-	-	-	-	3.32	-	-	-	3.32	3.32	-
Nowata...	-	-	-	-	-	-	-	-	-	-	-	-
Okfuskee.	-	-	-	-	-	-	-	-	-	-	-	-
Okmulgee.	-	-	119.79	-	-	-	-	-	-	119.79	-	-
Pittsburg	-	67.44	49.76	-	-	-	-	-	-	117.20	-	67.44
Rogers...	42.13	-	7.99	-	-	-	-	-	-	50.12	7.99	42.13
Sequoyah.	-	-	-	8.21	-	-	-	-	-	8.21	-	8.21
Tulsa....	-	-	9.63	-	-	-	-	-	-	9.63	9.63	-
Wagoner..	4.13	-	-	-	-	-	-	-	-	4.13	-	4.13
Total.	46.26	122.40	457.72	13.81	41.54	91.22	-	61.26	-	834.21	177.28	285.27

PENNSYLVANIA

County	High volatile			Medium volatile			Low volatile			County totals		
	Premium	Marginal	Latent	Premium	Marginal	Latent	Premium	Marginal	Latent	Coking coal DRB	Sulfur >3.0% DRB	Premium + marginal DRB
Allegheny...	425.46	447.30	-	-	-	-	-	-	-	872.76	-	872.76
Armstrong...	-	9.87	1,122.21	-	-	-	-	-	-	1,132.08	499.55	9.87
Beaver.....	-	50.65	379.16	-	-	-	-	-	-	429.81	-	50.65
Bedford.....	-	-	-	-	-	-	-	27.55	62.50	90.05	-	27.55
Blair.....	-	-	.40	-	1.94	15.21	-	-	-	17.55	15.21	1.94
Bradford....	-	-	-	-	-	-	-	-	-	-	-	-
Butler.....	-	-	1,017.97	-	-	-	-	-	-	1,017.97	165.31	-
Cambria.....	-	-	-	-	274.64	498.82	-	377.67	366.48	1,517.61	1.31	652.31
Cameron.....	-	-	-	-	-	-	-	-	-	-	-	-
Centre.....	-	-	-	-	82.66	143.43	-	-	-	226.09	-	82.66
Clarion.....	-	19.05	647.65	-	-	-	-	-	-	666.70	386.44	19.05
Clearfield..	-	-	-	-	394.60	706.60	-	-	-	1,101.20	-	394.60
Clinton.....	-	-	-	-	-	17.45	-	-	-	17.45	-	-
Elk.....	-	-	11.05	-	2.54	-	-	-	-	13.59	-	2.54
Fayette.....	-	221.72	352.26	-	-	259.12	-	-	-	833.10	76.21	221.72
Fulton.....	-	-	-	-	-	-	-	-	-	-	-	-
Greene.....	-	-	5,585.90	-	-	-	-	-	-	5,585.90	-	-
Huntingdon..	-	-	-	-	-	-	-	24.48	-	24.48	-	24.48
Indiana.....	-	-	4.67	-	438.31	1,277.82	-	-	-	1,720.80	-	438.31
Jefferson...	11.28	277.57	74.43	-	7.27	-	-	-	-	370.55	-	296.12
Lawrence....	-	-	86.60	-	-	-	-	-	-	86.60	79.74	-
Lycoming....	-	-	-	-	-	-	-	-	-	-	-	-
McKean.....	-	-	79.25	-	-	-	-	-	-	79.25	79.25	-
Mercer.....	-	-	56.45	-	-	-	-	-	-	56.45	56.45	-
Somerset....	-	-	-	-	6.18	-	-	351.78	884.54	1,242.50	-	357.96
Tioga.....	-	-	-	-	-	23.60	-	-	2.25	25.85	11.90	-
Venango.....	-	-	37.99	-	-	-	-	-	-	37.99	37.99	-
Washington..	-	-	3,352.32	-	-	-	-	-	-	3,352.32	334.68	-
Westmoreland	-	97.78	608.36	-	-	1.39	-	-	-	707.53	-	97.78
Total....	436.74	1,123.94	13,416.67	-	1,208.14	2,943.44	-	781.48	1,315.77	21,226.18	1,744.04	3,550.30

TENNESSEE

County	High volatile			Medium volatile			Low volatile			County totals		
	Premium	Marginal	Latent	Pre-mium	Mar-ginal	Latent	Pre-mium	Mar-ginal	Latent	Coking coal DRB	Sulfur >3.0% DRB	Premium + marginal DRB
Anderson..	41.66	29.50	54.15	-	-	-	-	-	-	125.31	24.74	71.16
Bledsoe...	-	-	14.78	-	-	-	-	-	-	14.78	-	-
Campbell..	97.71	59.04	86.67	-	-	-	-	-	-	243.42	4.26	156.75
Claiborne.	3.02	8.57	7.36	-	-	-	-	-	-	18.95	-	11.59
Cumberland	-	-	23.44	-	-	-	-	-	-	23.44	-	-
Fentress..	8.33	-	37.50	-	-	-	-	-	-	45.83	-	8.33
Grundy....	-	9.47	-	-	-	-	-	-	-	9.47	-	9.47
Hamilton..	-	14.96	43.40	-	-	-	-	-	-	58.36	-	14.96
Marion....	-	42.11	2.59	-	-	-	-	-	-	44.70	-	42.11
Morgan....	14.50	9.37	55.62	-	-	-	-	-	-	79.49	-	23.87
Overton...	-	-	11.45	-	-	-	-	-	-	11.45	11.45	-
Pickett...	-	-	-	-	-	-	-	-	-	-	-	-
Putnam....	-	-	21.95	-	-	-	-	-	-	21.95	21.95	-
Rhea.....	-	-	6.05	-	-	-	-	-	-	6.05	-	-
Roane.....	-	1.34	-	-	-	-	-	-	-	1.34	-	1.34
Scott.....	-	38.68	32.44	-	-	-	-	-	-	71.12	28.38	38.68
Sequatchie	-	61.29	-	-	-	-	-	-	-	61.29	-	61.29
Van Buren.	-	-	6.55	-	-	-	-	-	-	6.55	-	-
White.....	-	-	2.75	-	-	-	-	-	-	2.75	2.75	-
Total..	165.22	274.70	406.70	-	-	-	-	-	-	846.25	68.79	439.55

UTAH

County	High volatile			Medium volatile			Low volatile			County totals		
	Premium	Marginal	Latent	Premium	Marginal	Latent	Premium	Marginal	Latent	Coking coal DRB	Sulfur >3.0% DRB	Premium + marginal DRB
Carbon..	766.70	-	-	-	-	-	-	-	-	766.70	-	766.70
Emery...	15.54	-	-	-	-	-	-	-	-	15.54	-	15.54
Garfield	-	29.67	-	-	-	-	-	-	-	29.67	-	29.67
Grand...	-	-	-	-	-	-	-	-	-	-	-	-
Iron....	-	-	-	-	-	-	-	-	-	-	-	-
Kane....	-	-	200.00	-	-	-	-	-	-	200.00	-	-
Sevier..	-	-	10.00	-	-	-	-	-	-	10.00	-	-
Summit..	-	-	-	-	-	-	-	-	-	-	-	-
Uintah..	-	-	-	-	-	-	-	-	-	-	-	-
Wayne...	-	-	-	-	-	-	-	-	-	-	-	-
Total	782.24	29.67	210.00	-	-	-	-	-	-	1,021.91	-	811.91

VIRGINIA

County	High volatile			Medium volatile			Low volatile			County totals		
	Premium	Marginal	Latent	Premium	Marginal	Latent	Premium	Marginal	Latent	Coking coal DRB	Sulfur >3.0% DRB	Premium + marginal DRB
Buchanan.	188.42	114.37	-	313.85	401.05	-	-	-	-	1,017.69	-	1,017.69
Dickenson	162.92	91.43	0.98	-	-	-	-	-	-	255.33	-	254.35
Lee.....	28.67	52.49	106.53	-	-	-	-	-	-	187.69	-	81.16
Russel...	256.13	-	187.06	-	-	-	-	-	-	443.19	-	256.13
Tazewell.	-	-	-	61.51	33.17	47.30	-	-	-	141.98	-	94.68
Wise.....	344.11	336.08	121.65	-	-	-	-	-	-	801.84	-	680.19
Total.	980.25	594.37	416.22	375.36	434.22	47.30	-	-	-	2,847.72	-	2,384.20

WEST VIRGINIA

County	High volatile			Medium volatile			Low volatile			County totals		
	Premium	Marginal	Latent	Premium	Marginal	Latent	Premium	Marginal	Latent	Coking coal DRB	Sulfur >3.0% DRB	Premium + marginal DRB
Barbour.....	-	-	490.31	-	-	-	-	-	-	490.31	132.87	-
Boone.....	454.91	1,435.64	340.97	-	-	-	-	-	-	2,231.52	-	1,890.55
Braxton.....	-	-	106.29	-	-	-	-	-	-	106.29	-	-
Brooke.....	-	-	151.75	-	-	-	-	-	-	151.75	-	-
Cabell.....	-	-	-	-	-	-	-	-	-	-	-	-
Calhoun.....	-	-	-	-	-	-	-	-	-	-	-	-
Clay.....	-	401.17	124.90	-	-	-	-	-	-	526.07	-	401.17
Doddridge.....	-	-	-	-	-	-	-	-	-	-	-	-
Fayette.....	601.03	31.85	2.10	196.19	-	-	86.70	31.00	-	948.87	-	946.77
Gilmer.....	-	-	169.48	-	-	-	-	-	-	169.48	-	-
Grant.....	-	-	-	-	-	-	-	79.51	247.70	327.21	-	79.51
Greenbrier.....	-	-	-	111.39	165.34	-	-	-	-	276.73	-	276.73
Hancock.....	-	-	120.73	-	-	-	-	-	-	120.73	101.04	-
Harrison.....	-	-	403.01	-	-	-	-	-	-	403.01	386.14	-
Kanawha.....	582.39	582.40	158.97	-	-	-	-	-	-	1,323.76	-	1,164.79
Lewis.....	-	-	592.04	-	-	-	-	-	-	592.04	546.60	-
Lincoln.....	-	-	-	-	-	-	-	-	-	-	-	-
Logan.....	1,405.59	1,440.59	178.35	-	-	-	-	-	-	3,024.53	-	2,846.18
McDowell.....	-	-	-	80.98	16.14	-	818.24	154.52	-	1,127.14	-	1,127.14
Marion.....	-	1,047.12	1,010.81	-	-	-	-	-	-	2,057.93	1,010.81	1,047.12
Marshall.....	-	-	1,925.65	-	-	-	-	-	-	1,925.65	1,925.65	-
Mason.....	-	-	117.87	-	-	-	-	-	-	117.87	117.87	-
Mercer.....	-	-	-	-	-	-	46.45	-	-	46.45	-	46.45
Mineral.....	-	-	-	-	-	-	-	15.08	161.60	176.68	68.26	15.08
Mingo.....	823.24	946.13	-	-	-	-	-	-	-	1,769.37	-	1,769.37
Monongalia.....	-	150.43	2,900.27	-	-	-	-	-	-	3,050.70	-	150.43
Nicholas.....	662.94	286.03	105.73	245.06	-	-	-	-	-	1,299.76	-	1,194.03
Ohio.....	-	-	287.69	-	-	-	-	-	-	287.69	287.69	-
Pocahontas.....	87.80	-	-	-	-	-	-	-	-	87.80	-	87.80
Preston.....	-	6.84	452.88	-	-	246.46	-	-	-	706.12	-	6.84
Putnam.....	-	-	146.57	-	-	-	-	-	-	146.57	-	-
Raleigh.....	243.86	123.14	-	242.46	-		912.86	-	-	1,522.32	-	1,522.32
Randolph.....	79.94	67.34	9.55	337.96	-	-	-	-	-	494.79	-	485.24
Roane.....	-	-	-	-	-	-	-	-	-	-	-	-
Summers.....	-	-	-	-	-	-	-	-	-	-	-	-
Taylor.....	-	-	40.04	-	-	-	-	-	-	40.04	-	-
Tucker.....	-	-	-	-	98.63	-	-	-	-	98.63	-	98.63
Tyler.....	-	-	-	-	-	-	-	-	-	-	-	-
Upshur.....	-	67.36	109.45	-	-	-	-	-	-	176.81	16.80	67.36
Wayne.....	-	-	-	-	-	-	-	-	-	-	-	-
Webster.....	203.89	-	-	-	-	34.52	-	-	-	238.41	-	203.89
Wetzel.....	-	-	-	-	-	-	-	-	-	-	-	-
Wyoming.....	181.08	.61	16.26	100.57	38.87	54.26	949.38	208.03	-	1,600.06	-	1,529.54
Total.....	5,326.67	6,643.91	9,961.67	1,365.61	318.98	335.24	2,813.63	488.14	409.30	27,663.15	4,593.73	16,956.94

WASHINGTON

County	High volatile			Medium volatile			Low volatile			County totals		
	Premium	Marginal	Latent	Premium	Marginal	Latent	Premium	Marginal	Latent	Coking coal DRB	Sulfur >3.0% DRB	Premium + marginal DRB
King....	7.90	1.64	10.65	-	-	-	-	-	-	20.19	-	9.54
Kittitas	-	-	64.39	-	-	-	-	-	-	64.39	-	-
Lewis...	-	-	1.61	-	-	-	-	-	-	1.61	-	-
Pierce..	-	-	12.52	-	1.64	3.34	-	-	-	17.50	-	1.64
Whatcom.	-	-	33.96	-	-	-	-	-	-	33.96	-	-
Total	7.90	1.64	123.13	-	1.64	3.34	-	-	-	137.65	-	11.18

WYOMING

County	High volatile			Medium volatile			Low volatile			County totals		
	Premium	Marginal	Latent	Premium	Marginal	Latent	Premium	Marginal	Latent	Coking coal DRB	Sulfur >3.0% DRB	Premium + marginal DRB
Carbon.....	-	39.21	-	-	-	-	-	-	-	39.21	-	39.21
Lincoln....	-	555.89	-	-	-	-	-	-	-	555.89	-	555.89
Hot Springs	-	-	-	-	-	-	-	-	-	-	-	-
Park.....	-	8.26	-	-	-	-	-	-	-	8.26	-	8.26
Sweetwater.	-	3,402.80	-	-	-	-	-	-	-	3,402.80	-	3,402.80
Teton.....	-	-	-	-	-	-	-	-	-	-	-	-
Uinta.....	-	-	494.70	-	-	-	-	-	-	494.70	-	-
Total.	-	4,006.16	494.70	-	-	-	-	-	-	4,500.86	-	4,006.16

APPENDIX C.--COALBED CODE NUMBERS

ALABAMA

001	Various
182	Lower Maylene
194	Montevallo
198	Brookwood
199	Milldale
200	Johnson
201	Clements
202	Yeshic
204	Helena
207	Gwin
218	Cobb (Upper and Lower Cobb)
220	Lower Thompson
223	Gholson
225	Clark
227	Pratt
228	Fire Clay
229	American
236	Bynum
239	Youngblood
240	Buck
242	Coal City
247	Broken Arrow
277	Wadsworth
278	New Castle
279	Mary Lee
280	Blue Creek
281	Jagger
296	Harkness
298	Jefferson
299	Black Creek
313	Bragg
314	Nunnally Coal Zone
315	Glass
326	Nelson
336	Gould
338	Swansea
364	Underwood
970	American and Mary Lee
975	American and Pratt
977	Black Creek and Jefferson
979	Brookwood and Harkness
980	Brookwood and Carter
981	Brookwood and Milldale
982	Clark and Gholson
984	Mary Lee and Pratt
985	Woodstock and Youngblood
986	Woodstock and Thompson

ALASKA

001	Various
799	Uncorrelated

ARKANSAS

551	Paris
554	Charleston
562	Upper Hartshorne
563	Lower Hartshorne
799	Uncorrelated

COLORADO

001	Various
002	Various
516	Allen
704	A (Carbondale Field)
705	B (Carbondale Field)
709	Hastings
711	Lower Starkville
712	Nonac
715	Wheeler
717	Morley
718	Anderson
719	Upper Ludlow
722	Upper Rugby
724	Rapson
725	Walsen
727	Palisade
729	Frederick
730	Lower Robinson
732	Magnet
733	Fox Hill

COLORADO--Continued

735	Cass
736	Zenith
738	Wolf Creek
739	Delagua No. 1
741	Majestic
742	Lower Ludlow
744	Chandler
745	Dirty Robinson
747	Empire
748	Pinnacle
749	Rockdale
750	Wadge
751	Primero
753	B
754	Bear
755	D
756	E
758	Brookside
759	Allen
760	Lennox
762	Dry Creek
763	Cameron
764	Bear Canyon No. 6
765	Jack-O-Lantern
767	Radiant
768	Laramie No. 3
769	Collom
770	Cameo
799	Uncorrelated
970	Upper and Lower Ludlow
971	Jack-O-Lantern and Monarch
974	A and Anderson (Carbondale Field)
975	A and B (Carbondale Field)
978	B and C (Grand Mesa and Somerset Fields)

GEORGIA

258	A
263	Durham
267	No. 4
272	No. 5
320	Aetna
327	Bluff
335	Rattlesnake
365	Upper Sailcreek
799	Uncorrelated
941	Durham and A
942	Durham and No. 4

IDAHO

608	Brown Bear
799	Uncorrelated

ILLINOIS

001	Various
480	No. 7
484	No. 6
489	No. 5
496	No. 2
506	Davis
529	No. 1
900	Nos. 5 and 6
901	Davis and Dekoven
908	Nos. 2 and 3
910	Nos. 2 and 5

INDIANA

001	Various
480	No. VII
483	No. VI
489	No. V
490	No. IV-A
493	No. IV
502	No. III
529	Minshall
537	Upper Block Zone
545	Lower Block Zone
799	Uncorrelated
990	Nos. III and IV
992	Nos. IV and V

IOWA

442	Nodaway
484	Mystic
517	Lucas County No. 5
530	Ford
539	Cliffland
548	Manbeck
550	Hastie
799	Uncorrelated

KANSAS

001	Various
442	Nodaway
492	Bevier
499	Fleming
504	Mineral
513	Weir-Pittsburg
904	Fleming and Mineral
906	Weir-Pittsburg and Rowe
909	Weir-Pittsburg and Columbus
940	Bevier and Croweburg

KENTUCKY (EAST)

001	Various
096	Hindman
104	Hazard No. 7
111	Hazard
121	Haddix
126	Upper Hamlin
134	Fire Clay Rider
135	Hazard No. 4
137	Whitesburg
142	Upper Mason
151	Darby No. 5
152	Kellioka
154	Upper Elkhorn No. 2
157	Upper Elkhorn No. 1
168	Lower Elkhorn
174	Bingham
196	Auxier
212	Lily
233	Elswick
287	Barren Fork
294	Beaver Creek
303	Stearns No. 1-1/2
322	Hudson
799	Uncorrelated
858	Hazard No. 4 and Hazard No. 4 Rider
863	High Splint and Lower Hignite
871	Nos. 1 and 1-1/2
872	Hazard No. 4 and Whitesburg
874	Hazard No. 4 and Hindman
877	Hazard No. 7 and Hindman
878	Elkhorn Nos. 1 and 3
892	Lower Hignite and Mason
893	Lower Hignite and Sterling
895	Alma and No. 2 Gas
901	Elkhorn No. 2 and Hazard No. 4
907	Hazard Nos. 4 and 5-A
908	Hance and Mason
909	Hazard Nos. 5 and 5-A
910	Sterling and Jellico
911	Hazard Nos. 4 and 4-A
913	Elkhorn Nos. 2 and 3
930	Elkhorn No. 3 and Lower Elkhorn
935	Elkhorn No. 3 and Whitesburg
936	Elkhorn No. 3 and Elkhorn Rider
939	Elkhorn Nos. 1 and 2
941	Hazard Nos. 4 and 7
942	Hazard Nos. 5-A and 7
945	High and Low Splint
951	Hazard No. 4 and Horse Creek
956	Chilton and Cedar Grove
983	Clintwood and Lower Elkhorn

KENTUCKY (WEST)

001	Various
480	No. 14
482	No. 13
483	No. 12
484	No. 11
487	No. 10
489	No. 9
506	No. 6
799	Uncorrelated
900	Nos. 9 and 11

KENTUCKY (WEST)--Continued

902 Nos. 6 and 9
905 Nos. 11 and 12
907 No. 9 and No. 11

MARYLAND

001 Various
023 Waynesburg
029 Sewickley
033 Redstone (Upper and Lower Benches)
036 Pittsburgh
038 Little Pittsburgh
042 Franklin
055 Barton
060 Harlem
062 Upper Bakerstown
063 Lower Bakerstown
071 Upper Freeport
074 Lower Freeport
076 Upper Kittanning
084 Lower Kittanning
087 Clarion
799 Uncorrelated
924 Lower and Upper Kittanning
927 Lower Kittanning and Upper Freeport
949 Pittsburgh and Sewickley
950 Lower Bakerstown and Upper Freeport

MICHIGAN

538 Upper Verne
799 Uncorrelated
565 Saginaw

MISSOURI

001 Various
482 Mulberry
484 Lexington
490 Mulky
492 Bevier
496 Croweburg
499 Fleming
504 Mineral
509 Tebo
513 Weir-Pittsburg
540 Knifeton
545 Rowe
799 Uncorrelated
903 Bevier and Mulky
925 Knifeton and Rowe
979 Bevier and Tebo

MONTANA

525 McKay
780 Roundup
781 No. 2
799 Uncorrelated
805 Bull Mountain
806 Mammoth
807 Carpenter Creek
808 Rosebud
809 No. 1
811 No. 3
812 No. 4
814 No. 5
816 Belt Creek
935 Dietz Nos. 1 and 2

NEVADA

799 Uncorrelated

NEW MEXICO

479	Blue
488	No. 8
507	Upper York Canyon
771	Sugarite
772	Yankee
773	Raton
774	Aztec
775	Gibson
776	White Ash
777	Hogback
778	Cook and White
779	Carthage
785	Black Diamond
799	Uncorrelated

NORTH DAKOTA

564	Harmon
569	Beulah-Zap
575	Coteau
799	Uncorrelated

OHIO

001	Various
023	Waynesburg
029	Sewickley
033	Redstone
036	Pittsburgh
060	Harlem
062	Anderson
070	Mahoning
071	Upper Freeport
074	Lower Freeport
080	Middle Kittanning
084	Lower Kittanning
087	Clarion
095	Brookville
103	Lower Mercer
121	Quakertown
285	Sharon
882	Middle Kittanning and Upper Freeport
884	Brookville and Lower Kittanning
928	Lower and Middle Kittanning
949	Pittsburgh and Sewickley
950	Anderson and Upper Freeport
955	Pittsburgh and Redstone

OKLAHOMA

001	Various
473	Dawson
490	Iron Post
496	Croweburg
504	Mineral
507	Sequoyah
520	Pawpaw
527	Secor
552	Cavanal
556	Stigler
558	McAlester
562	Upper Hartshorne
563	Lower Hartshorne
880	Lower and Upper Hartshorne
911	Lower and Upper McAlester

OREGON

799	Uncorrelated
837	Beaver Hill

PENNSYLVANIA--BITUMINOUS

001	Various
023	Waynesburg
029	Sewickley
033	Redstone
036	Pittsburgh
038	Little Pittsburgh
062	Bakerstown
063	Lower Bakerstown

PENNSYLVANIA--BITUMINOUS--Continued

067 Brush Creek
070 Mahoning
071 Upper Freeport
074 Lower Freeport
076 Upper Kittanning
080 Middle Kittanning
084 Lower Kittanning
086 Upper Clarion
087 Clarion
095 Brookville
103 Lower Mercer
799 Uncorrelated
860 Middle and Upper Kittanning
880 Upper Kittanning and Upper Freeport
881 Clarion and Middle Kittanning
882 Middle Kittanning and Upper Freeport
883 Brookville and Upper Kittanning
884 Brookville and Lower Kittanning
885 Clarion and Lower Kittanning
886 Upper Kittanning and Lower Freeport
887 Brookville and Middle Kittanning
921 Redstone and Waynesburg
924 Lower and Upper Kittanning
926 Lower Kittanning and Lower Freeport
927 Lower Kittanning and Upper Freeport
928 Lower and Middle Kittanning
937 Redstone and Sewickley
949 Pittsburgh and Sewickley
952 Lower and Upper Freeport

SOUTH DAKOTA

799 Uncorrelated

TENNESSEE

112 Rock Spring
126 Pewee
128 Walnut Mountain
129 Red Ash
134 Big Mary
135 Poplar Lick
140 Upper Pioneer
142 Buckeye Springs
144 Jordan
147 Joyner
151 Jellico
157 Blue Gem
168 Coal Creek
212 Poplar Creek
234 Hooper
256 Rex
265 Morgan Springs
270 Oakdale
286 Sewanee
295 Richland
312 Wilder
320 Castle Rock
326 Upper Bon Air
327 Dade
346 Upper White Oak
366 Lower Sale Creek
799 Uncorrelated
878 Blue Gem and Jellico
911 Big Mary and Windrock
918 Pewee and Red Ash

TEXAS

799 Uncorrelated

UTAH

001 Various
002 Various
799 Uncorrelated
800 Sunnyside
802 Lower Sunnyside
820 Rock Canyon
825 Gilson
830 Aberdeen

UTAH--Continued

832	Castle Gate B
834	Castle Gate C
836	Castle Gate D
840	Subseam No. 1
842	Subseam No. 2
843	Subseam No. 2-1/2
844	Subseam No. 3
846	Hiawatha
848	Ivie
849	Upper Ivie
850	Wasatch
851	Muddy No. 1
852	Ferron A
853	Ferron J
855	Blind Canyon
856	Bear Canyon
886	Hiawatha and Bear Canyon
887	Castle Gate B and Subseam No. 1
905	Castle Gate A and Castle Gate D
907	Castle Gate C and Castle Gate D

VIRGINIA--BITUMINOUS

001	Various
104	High Splint
111	Morris
126	Pardee
135	Phillips
142	Low Splint
151	Cedar Grove
152	Taggart Marker
157	Upper Standiford
165	Kelly
168	Imboden
174	Clintwood
176	Eagle
177	Blair
178	Lyons
185	Dorchester
189	Norton
195	Hagy
210	Splash Dam
214	Upper Banner
216	Lower Banner
252	Kennedy
259	Raven
266	Jawbone
268	Thick Tiller
269	Tiller
271	Upper Seaboard
285	Lower Seaboard
302	Middle Horsepen
341	Pocahontas No. 5
344	Pocahontas No. 3
377	Brushy Mountain
379	Langhorne
866	Low Splint and Phillips
867	Taggart and Taggart Marker
868	Clintwood and Upper Banner
869	Splash Dam and Upper Banner
878	Darby and Harlan
889	Lower and Upper Seaboard
890	Blair and Clintwood
908	Harland and Low Splint
921	Lower and Upper Banner
929	Blair and Lyons
930	Imboden and Taggart
931	Eagle and Douglas
945	Low Splint and High Splint
969	Splash Dam and Kennedy
971	Kennedy and Raven
972	Imboden and Kelly
987	Dorchester and Splash Dam
988	Clintwood and Splash Dam

WASHINGTON

001	Various
002	Various
393	Blue Canyon
394	Lake Whatcom
402	No. 1
403	No. 2
404	No. 3
405	No. 4
406	No. 5
407	No. 6
408	Dolly Varden
410	Muldoon
415	Sunbeam
417	Discovery

WASHINGTON

423 Dale No. 4
425 Dale No. 7
431 Occidental No. 1
432 Carbon
434 Navy No. 6
436 Occidental No. 2
440 Durham No. 2
441 Occidental No. 3
444 Occidental No. 6
446 Occidental No. 14
447 Pocahontas
448 Frazier
449 Ravensdale No. 9
451 Ravensdale No. 5
453 Ravensdale No. 4
455 Ravensdale No. 3
458 Elk No. 1
460 Elk No. 2
465 Wilkeson No. 1
469 Morgan No. 7
471 Crocker
475 Nisqually
478 No. 7
479 No. 8
480 No. 10
481 No. 11
484 Blacksmith
487 Black Bear
500 Ladd No. 3
799 Uncorrelated
821 Big
823 Roslyn
824 Plant No. 6
826 Bagley
827 Dale
828 McKay
829 Jones
831 Bellingham No. 1
833 Roslyn No. 8
960 Bagley and May Creek
961 Roslyn and Big
962 Roslyn and Roslyn No. 6
973 Nos. 1 and 2
982 Nos. 2 and 3
984 Nos. 3 and 4

WEST VIRGINIA

001 Various
002 Various
023 Waynesburg
029 Sewickley
033 Redstone
036 Pittsburgh
055 Elk Lick
063 Bakerstown
070 Mahoning
071 Upper Freeport
074 Lower Freeport
076 Upper Kittanning
080 Middle Kittanning
084 Lower Kittanning
087 Clarion
103 Stockton-Lewiston
111 Coalburg
117 Buffalo Creek
121 Winifrede
135 Chilton
136 Little Chilton
137 Hernshaw
151 Cedar Grove
154 Lower Cedar Grove
157 Alma
167 Peerless
168 No. 2 Gas
170 Powellton
174 Matewan
176 Eagle
179 Little Eagle
195 Lower War Eagle
216 Gilbert
252 Douglas
266 Iaeger
285 Sewell
293 Welch
311 Beckley
318 Fire Creek
334 Pocahontas No. 6
341 Pocahontas No. 5
342 Pocahontas No. 4
344 Pocahontas No. 3
799 Uncorrelated
873 Lower Cedar Grove and No. 2 Gas

WEST VIRGINIA--Continued

888 Beckley and Sewell
891 Beckley and Fire Creek
894 Pocahontas No. 4 and Pocahontas No. 5
895 Alma and No. 2 Gas
896 Cedar Grove and Stockton-Lewiston
898 Eagle and Little Eagle
899 Winifrede and Stockton-Lewiston
913 Cedar Grove and Lower Cedar Grove
914 Sewell and Welch
916 No. 5 Block and Cedar Grove
917 Douglas and Iaeger
919 Sewell and Fire Creek
920 Pocahontas No. 6 and Fire Creek
922 Bens Creek and Gilbert
924 Lower and Upper Kittanning
928 Lower Kittanning and Middle Kittanning
930 Cedar Grove and No. 2 Gas
931 Eagle and Douglas
932 Douglas and Bens Creek
934 Hernshaw and No. 2 Gas
937 Redstone and Sewickley
939 Alma and Lower Cedar Grove
940 Lower Douglas and Lower Iaeger
943 Coalburg and Stockton-Lewiston
944 Cedar Grove and Coalburg
946 Peerless and Sewell
947 Chilton and No. 5 Block
948 No. 5 Block and No. 2 Gas
949 Pittsburgh and Sewickley
950 Bakerstown and Upper Fremont
952 Lower Freeport and Upper Freeport
955 Pittsburgh and Redstone
956 Chilton and Cedar Grove
957 Chilton and No. 2 Gas
958 No. 5 Block and Winifrede
959 No. 5 Block and Stockton-Lewiston
960 Eagle and Powellton
961 No. 2 Gas and Powellton
963 Pocahontas No. 4 and Beckley
964 Eagle and No. 2 Gas
965 Coalburg and No. 5 Block
985 Cedar Grove and Winifrede
989 Pocahontas No. 6 and Beckley
990 Pocahontas No. 3 and Beckley
991 Pocahontas Nos. 3 and 6
994 Pocahontas Nos. 3 and 4
996 Pocahontas Nos. 6 and 9
997 Pocahontas Nos. 3 and 5
998 Pocahontas Nos. 10 and 11
999 Pocahontas Nos. 10 and 12

WYOMING

001 Various
002 Various
506 Rock Springs No. 8
520 Dietz No. 2
522 Badger
523 School
691 Healy
698 Dietz No. 1
701 Smith
702 Arvada
706 Felix
708 Lower Ulm
782 Adaville
783 Monarch
786 Masters
787 Roland
788 Rock Springs No. 5
789 Rock Springs No. 4
790 Rock Springs No. 3
791 Rock Springs No. 1
792 Rock Springs No. 7-1/2
793 Rock Springs No. 9
794 Rock Springs No. 7
795 Rock Springs No. 10
796 Rock Springs No. 11
797 Rock Springs No. 15
798 Van Dyke
799 Uncorrelated
801 Kemmerer
803 Willow Creek
804 Hanna No. 1
817 Hanna No. 2
818 Hanna No. 3
819 Hanna No. 5
951 Smith and Roland
952 Manarch and Carney
953 Rock Springs Nos. 1 and 3
954 Rock Springs Nos. 10 and 15
955 Hanna Nos. 2 and 79-A

APPENDIX D.--GLOSSARY

Resources.--Concentrations of coal in such forms that economic extraction is feasible or may become feasible.

Identified resources.--Specific bodies of coal whose location, rank, quality, and quantity are known from geologic evidence supported by engineering measurements. They include measured, indicated, and inferred resources.

Measured resources.--Coal for which estimates of the rank, quality, and quantity have been computed, within a margin of error of less than 20 percent, from sample analyses and measurements from closely spaced and geologically well-known sample sites.

Indicated resources.--Coal for which estimates of the rank, quality, and quantity have been computed partly from sample analyses and measurements and partly from reasonable geologic projections.

Inferred resources.--Coal in unexplored extensions of measured and indicated resources for which estimates of quality and size are based on geologic evidence and projection.

Demonstrated reserve base (DRB).--The sum of measured and indicated coal resources from which reserves are calculated. Includes beds of bituminous coal and anthracite 28 or more inches in thickness,and subbituminous beds 60 or more inches in thickness that occur to 1,000-foot depths. Includes thinner and/or deeper beds that are presently being mined or for which evidence exists that they could be mined commercially at this time. Includes lignite beds 60 inches or more in thickness that can be surface-mined; these beds are no greater than about 120 feet deep.

Proximate analysis.--In the case of coal and coke, the determination, by prescribed ASTM methods, of moisture, volatile matter, fixed carbon (by difference), and ash.

Ultimate Analysis.--The determination of carbon and hydrogen in coal as found in the gaseous products of its complete combustion, the determination of sulfur, nitrogen, and ash in the coal as a whole, and the estimation of oxygen by difference.

Volatile combustible matter (VM).--That part of the combustible matter of coal and coke that is driven off when coal is heated in a closed vessel, chiefly compounds of hydrogen and carbon.

Fixed carbon (FC).--The solid residue, other than ash, obtained by destructive distillation of coal and coke under prescribed laboratory methods; that is,

$$FC = 100 - (\text{the sum of moisture } M, VM, \text{ and ash}).$$

Ash.--The inorganic residue remaining after ignition of coal and coke under prescribed laboratory conditions.

Ash-softening temperature.--The temperature (° F) at which a small core of coal ash has fused down into a spherical lump after being heated in a furnace under prescribed laboratory conditions.

Moisture, air-dried.--Moisture retained in coal and coke after air drying under standard laboratory conditions.

Moisture, as-received.--Calculated from air-dried analysis as follows:

$$\text{Moisture as rec.} = \text{moisture} \times \frac{(100 - \text{air-dried loss})}{100} + \text{air-dried loss.}$$

Dry basis.--An analysis expressed on the basis of a coal sample from which the total moisture has in theory been removed; that is,

$$\text{Vol matter, dry} = \text{vol matter} \times \frac{100}{(100 - \text{moisture})}.$$

Dry, mineral-matter-free basis.--An analysis expressed on the basis of a coal sample from which the total moisture and the mineral matter (1.1 ash + 0.1 sulfur) have in theory been removed.

Sulfur.--In coal, occurs as iron pyrite (FeS_2) and organic sulfur. The organic sulfur is chemically combined with other compounds and cannot be removed by existing coal-cleaning processes. Portions of the pyritic sulfur can be removed in coal-cleaning processes.

Free-Swelling index (FSI).--A small-scale laboratory test for obtaining information regarding the free-swelling properties of a coal. The results may be used as an indication of the coking characteristics of the coal when burned as a fuel. In ASTM designation D-720-57, FSI ranges from indices of 1 through 9 (no swelling to high swelling).

Hardgrove grindability index.--ASTM designation D-409-51--a laboratory test to determine the relative grindability or ease of pulverizing coals in comparision with a coal chosen as 100 grindability.

Coke.--A coherent, cellular structured solid, primarily of amorphous carbon, obtained by the destructive distillation of certain bituminous coals.

Coking coal.--Bituminous coal that, when heated in the absence of air above its decomposition temperature, softens, swells, fuses, and finally run together to form porous masses.

Metallurgical coke.--Produced from bituminous coking coal generally containing less than 1.25 percent sulfur and 8 percent ash. Excess sulfur and ash contaminate metals and must be removed at the expense of decreased iron and steel production.

Specific gravity.--The ratio of the weight of any volume of a substance compared to the weight of an equal volume of pure water at 4° C.

Washability studies.--Standard tests in which raw coals are sized and separated in liquids of varying specific gravities ranging from 1.30 to 1.80 specific gravity. Coal floats and impurities sink with coal purity increasing as specific gravity decreases. Tests provide data on the quality and quantity of coal that can be recovered.

Blending coals.--Usually, medium- and low-volatile bituminous coals that can be mixed with high-volatile coking coals to improve coke quality and physical strength.

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